

# River Corridor Closure Contract

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## 300 Area Building Retention Evaluation Mitigation Plan

July 2007

I have reviewed this document and determined that it does not contain sensitive unclassified information.

Signature: 

Date: 7/2/07

T. S. Quinn, Safeguards and Security  
Washington Closure Hanford

Washington Closure Hanford

Prepared for the U.S. Department of Energy, Richland Operations Office  
Office of Assistant Manager for River Corridor



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**River Corridor  
Closure Contract** 

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# **300 Area Building Retention Evaluation Mitigation Plan**

**July 2007**

Author:

**D. J. McBride**

**Washington Closure Hanford**

Prepared for the U.S. Department of Energy, Richland Operations Office  
Office of Assistant Manager for River Corridor





## EXECUTIVE SUMMARY

The referenced letters direct WCH to evaluate the long-term retention of several facilities associated with the PNNL Capability Replacement Laboratory and other Hanford mission needs. In accordance with RL direction, WCH prepared a mitigation plan for three scenarios with different release dates for specific buildings. The evaluations present a proposed plan for providing utility services to retained facilities in support of a long-term (+20 year) lifespan in addition to temporary services to buildings with specified delayed release dates.

The following assumptions are used for all three scenarios:

The following 300 Area facilities and underlying waste sites are retained long term (removed from the WCH contract):

- 318 Complex (318, 318B, 318C, MO-226)
- 325 Complex (325, 325A, 325B, 325C, 325D, 325E)
- 331 Building (331)
- 350 Complex (350, 350A, 350B, 350C, 350D)
- 339-A HLAN hub
- 3220 Telecommunications Hub
- 3709-A&B Fire Station
- 312 River Pumphouse
- 3507 Microwave Tower
- 318-BA Boiler Annex
- 325-BA Boiler Annex
- 331-BA Boiler Annex
- 3508-T1, -T2, -T3 Sirens
- JCI Trailers (MO-258, MO-262, MO-263)
- 3906B Lift Station
- 3906C Monitoring Station
- 352F Electrical Substation
- 351, 351A, 351B Electrical Substation
- 3614A Monitoring Station



## Executive Summary

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2 reactor ISS, and 87 waste sites. Waste quantities associated with these reductions were also removed from the ERDF disposal costs.

All scenarios assumed a 2.0X multiplier on the excavation quantity and cost for Contract Line Item 1 (CLIN 1) FR burial grounds remaining to go, based on observed scope increases in burial grounds remediated to date. Waste disposition costs to the ERDF were also adjusted to reflect the increased excavation quantities. Non-Site Specific Support costs for the remaining FR areas were increased by a multiplier of 1.5X. No changes were made to CLIN3 scope. Scope increases in FR and associated ERDF costs were offset by contingency reductions in the Integrated Project Baseline for this mitigation plan.

An increase to the Mission and General Support costs was also included to reflect current operational experience. These costs were included to account for added funding needs in the performance years, but they were not included in contingency and fee calculations or the final scope calculations because they do not represent an increase to the approved baseline scope.

Several ongoing Tri-Party Agreement (TPA) milestone negotiations or changes were incorporated as part of the plan assumptions. The milestones for 100H area remediation were assumed to change to a start milestone of October 2008, approximately a fourteen month delay. Milestones associated with IU-2 and IU-6 were assumed to be delayed to complete December 2012. Milestones associated with 100K area were not considered because the scope was assumed to be removed from the RCC in this mitigation plan. The 100 B/C waste sites were assumed to complete in December 2008. Several 300 Area milestones are affected by the building retention and were the same between the three scenarios analyzed and are discussed in the impact section below. One additional 300 Area milestone, related to the 618-7 burial ground, has been identified as at-risk due to delays in starting the high-risk excavation. The delayed completion of this site was not affected by the 300 Area mitigation plan but the delayed status is reflected in the scenarios and the TPA milestone is not met in the resulting schedules.

A funding profile of \$209.5M for FY 2008 and \$242M for FY 2009 was assumed per RL guidance (Ref. 7). 100% funding per the RCC contract baseline was assumed for outyears. No reduction in the funding profile was assumed for the deletion of 100K or 300 Area scope.

## Executive Summary

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### Summary of Impacts:

The variations between the three evaluated scenarios are the release dates for Buildings 326 and 326-BA, and the delay or retention of Building 3790:

Scenario 1. 326 and 326-BA Released October 2009 and 3790 Released February 2011

Scenario 2. 326 and 326-BA Released February 2011 and 3790 Released February 2011

Scenario 3. 326 and 326-BA Released February 2011 and 3790 Retained Long-Term.

The majority of the impacts are the same between Scenarios 1, 2, and 3 and will be discussed as a group. The specific differences between the scenario impacts are limited to the total cost and schedule impact and are described separately for each scenario. A detailed discussion of the impacts is provided in Sections 5, 6, and 7.

- Removal of the 300 Area facilities and waste sites from the WCH contract resulted in a direct reduction to the Baseline Target Cost of \$65 million (\$89 million including contingency and escalation.)
- Removal of the 100K Area facilities and waste sites from the WCH contract resulted in a direct reduction to the Baseline Target Cost of \$93 million (\$125 million including contingency and escalation).
- A conceptual design and cost estimate were prepared for utility relocations in support of the retained and delayed facilities. The total cost for the utility relocations was estimated at approximately \$12M including contingency (Appendix A). The escalated cost estimate is \$12.7M. The utility relocation costs were spread from FY 2008 through FY 2011 as described in Section 4 to optimize the construction schedule since no added funding was provided by RL in the mitigation planning.
- Tri-Party Agreement (TPA) milestone impacts from the mitigation plan were limited to those sites already identified for changes as discussed above for the 100 areas, and 300 area milestones directly affected by the retention of waste sites or buildings identified in milestones. The following 300 Area milestones are affected:



## Executive Summary

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**M-016-00:** Complete Remedial Actions for all non-Tank Farms Operable Units by 9/30/2024.

**Impact:** Waste sites underlying the retained facilities or retained active utility systems will not be completed as part of the RCC scope. They will be deferred until the retained facilities are vacated (20+ years).

**M-016-00B:** Complete all interim 300 Area remedial actions including the 618-10 and 618-11 burial grounds by 9/30/2018.

**Impact:** Waste sites underlying the retained facilities or retained active utility systems will not be completed as part of the RCC scope. They will be deferred until the retained facilities are vacated (20+ years).

**M-016-69:** Complete all interim 300 Area remedial actions to include confirmatory sampling of all candidate sites listed in the 300-FF-2 ROD (except 618-10 and 618-11 burial grounds) by 9/30/2015.

**Impact:** Waste sites underlying the retained facilities or retained active utility systems will not be completed as part of the RCC scope. They will be deferred until the retained facilities are vacated (20+ years).

**M-016-74:** Complete interim remediation(to include excavation, loadout, closeout sampling, backfill and revegetation), for all 300 Area “inside the fence” waste sites north of Apple Street, except for the 300-RLWS, 300-15, 300-4, 300-268 and 300-123 waste sites remediation need only be completed through excavation and loadout by 9/30/2012.

**Impact:** Waste site 300-4 and portions of 300-RLWS and 300-15 are retained and should be removed from the milestone.

**M-094-00:** Complete disposition of 300 Area surplus facilities to be defined as the 220 facilities listed in the Hanford River Corridor Closure Contract Solicitation #DE-RP06-04RL14655 by 9/30/2015.

**Impact:** Milestone reference to 220 facilities and reference to #DE-RP06-04RL14655 are outdated. By updating the references the existing milestone for “surplus” facilities (excluding the retained facilities) can be met.

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**M-094-06, -07, -08, 09:** Complete the selected removal and/or remedial actions that are selected for XX of the following 19 high priority facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 Trench and 3720. (Multiple dates for different numbers of buildings completed)

**Impact:** Editorial impact, 325 building should be deleted and total number of facilities reduced. Each of the specific milestones can be met with no impact.

### **Scenario-specific Impacts: Scenario 1. 326 and 326-BA Released October 2009 and 3790 Released February 2011**

- WCH was able to mitigate the impacts of the delayed release facilities and added scope to avoid a critical path impact to the end date of the RCC contract. This avoids a "hotel load" (time-related cost) impact to the scenario. However, this mitigation plan does not reflect an equitable adjustment to performance fee to account for the favorable variance status (ahead of schedule and under budget) through 2007 that enabled the successful mitigation.
- Total impact of Scenario 1 resulted in a net Baseline Target Cost decrease of \$220 million (including contingency, escalation, fee, pension, and added utility scope) and no change to the RCC completion date of August 29, 2013.

### **Scenario –specific Impacts: Scenario 2. 326 and 326-BA Released February 2011 and 3790 Released February 2011**

- WCH was able to mitigate the impacts of the delayed release facilities and reduce the impact from the 17 months delayed release of Building 326 to a critical path impact of 6 weeks to the end date of the RCC contract. This minimized the "hotel load" (time-related cost) impact to the scenario. However, this mitigation plan does not reflect an equitable adjustment to performance fee to account for the favorable variance status (ahead of schedule and under budget) through 2007 that enabled the successful mitigation.
- Total impact of Scenario 2 resulted in a net Baseline Target Cost decrease of \$205 million (including contingency, escalation, fee, pension, utility scope, and hotel loads) and a change to the RCC completion date from August 29, 2013 to October 15, 2013.

## Executive Summary

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### **Scenario-specific Impacts: Scenario 3. 326 and 326-BA Released February 2011 and 3790 Retained Long-Term**

- WCH was able to mitigate the impacts of the delayed release facilities and reduce the impact from the 17 months delayed release of Building 326 to a critical path impact of 6 weeks to the end date of the RCC contract. This minimized the "hotel load" (time-related cost) impact to the scenario. However, this mitigation plan does not reflect an equitable adjustment to performance fee to account for the favorable variance status (ahead of schedule and under budget) through 2007 that enabled the successful mitigation.
- Total impact of Scenario 3 resulted in a net Baseline Target Cost decrease of \$206 million (including contingency, escalation, fee, pension, utility scope, and hotel loads) and a change to the RCC completion date from August 29, 2013 to October 15, 2013.

### **Conclusion**

Figure ES-1 provides a summary of the evaluations for the identified scenarios. WCH recommends proceeding with the definitive design and construction phase of the utility relocation project. Any of the three mitigation scenarios appear to be viable depending on the Government's needs regarding facilities 326 and 3790.

All scenarios result in impacts to the long-term configuration of waste sites remaining in the 300 Area, since there are waste sites associated with the retained facilities and utility systems that will be inaccessible for the assumed 20-year duration of facility occupancy. TPA milestones associated with the retained 300 Area facilities and waste sites will require renegotiation to reflect the changed scope.

Figure ES-2 provides a map of the planned configuration of the 300 area utility systems and the retained and delayed release facilities.

**Figure ES-1. Mitigation Plan Results Summary.**

Scenario	Fiscal Year					RCC Contract Complete Date	Schedule Impact	Scope Reduction	Scope Addition	"Hotel Load" cost impact*	Pension/ Fee/ other impact	Total RCC Cost Impact
	2010	2011	2012	2013	2014							
Base Baseline IPB						8/29/13	0	\$0	\$0	\$0	\$0	\$0
1 Scenario 1 - 326 and 326-BA released October 2009 and 3790 released February 2011						8/29/13	0	-\$214.4M	+\$14.3M	\$0	-\$19.8M	-\$219.9M
2 Scenario 2 - 326 and 326-BA released February 2011 and 3790 released February 2011						10/15/13	+ 6 weeks	-\$214.4M	+\$14.3M	+\$12.9M	-\$18.2M	-\$205.4M
3 Scenario 3 - 326 and 326-BA released February 2011 and 3790 retained long-term						10/15/13	+ 6 weeks	-\$215.3M	+\$14.3M	+\$12.9M	-\$18.3M	-\$206.4M

\* "Hotel load" is time-related cost for Mission Support/General Support, ERDF operations, End States/Final Closure, and project management for D4 Closure and FR Closure.







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## 1.0 BACKGROUND

The Washington Closure Hanford (WCH) River Corridor Closure (RCC) scope includes the deactivation, decommissioning, decontamination and demolition (D4) of 210 buildings located in the Hanford 300 Area, followed by field remediation of waste sites in the affected areas. Thirteen facility complexes in this area are currently occupied by the Pacific Northwest National Laboratory (PNNL) and have a delayed release to WCH. The RCC contract specifies a release date of October 1, 2009 for turnover of these facilities. However, the U.S. Department of Energy, Richland Operations Office (RL) has informed WCH that the replacement laboratory facilities that will be used to relocate PNNL's activities will not be ready for occupancy by the 2009 release date and changes to the WCH contract will be necessary. Several of the facilities will be retained by PNNL long-term (assumed > 20 years) and several support facilities will be retained by other Hanford contractors such as the Project Hanford Management Contractor (PHMC), future Mission Support Contractor (MSC), or Johnson Controls, Inc. (JCI).

WCH and PNNL have jointly identified opportunities for the early release of several of the PNNL facilities that could reduce the impact of delays for the remaining facilities.

Several scenarios have been specified by RL for evaluation in a mitigation plan. The scenarios vary in defining transfer dates for several of the facilities. In all scenarios, RL directed WCH to proceed with activities necessary to reroute utilities for the long-term retention facilities identified by RL. This document provides the mitigation plan to identify and reduce impacts to the RCC Contract from integration of the utility relocation scope with the RCC scope for facilities and waste sites that will still undergo remediation in the 300 Area. The plan also provides a summary of the conceptual designs and cost estimates prepared for the utility relocation project.

Existing utility services or components will be used provided they do not require removal, relocation or replacement due to planned remediation or demolition activities, and that they provide a reasonable expectation of service life compatible with the planned 20-year occupancy of several of the identified facilities. The utility system requirements include Electrical; Potable/Fire Protection Water; Wastewater (Sanitary, Process, Retention Process, and Storm water); Information Technology (IT)/Telecommunications; and other miscellaneous services such as natural gas, steam, and compressed air. No changes are required for natural gas, steam, and compressed air services (utility needs for the steam boilers themselves are provided as part of the utility relocations for the buildings served by the steam boilers) so the four main utility categories discussed in this plan will be electrical, water, wastewater, and IT.



## 2.0 SCHEDULE ASSUMPTIONS/RL GUIDANCE

RL has provided multiple letters of direction to WCH identifying assumptions or direction for this mitigation plan.

Reference 1 requested a precursor evaluation of the cost impacts and mitigation opportunities for the proposed long-term retention of the 318, 325, 331 and 350 complexes, along with 3220, 339A, and 3709A&B and several other structures. WCH provided the requested evaluation (Reference 2) and recommended proceeding with a more comprehensive conceptual design and mitigation planning effort.

Reference 3 directed WCH to prepare a mitigation plan with three scenarios. All scenarios would include a list of buildings for long-term retention and several facilities with specified release dates. The differences between the three scenarios were the release dates for buildings 326, 326-BA, and 3790, as follows:

- Scenario 1. 326, 326-BA released October 2009; 3790 released February 2011
- Scenario 2. 326, 326-BA released February 2011; 3790 released February 2011
- Scenario 3. 326, 326-BA released February 2011; 3790 retained long term

Reference 4 provided supplemental guidance clarifying RL's expectations for utility systems, directing the completion of utility relocations by the end of fiscal year 2009 and the preparation of additional mitigation plan scenarios where RL would provide additional funding (\$3M per year) for the utility relocation scope. Reference 4 also provided a draft functional requirements document from PNNL for the utility needs of the retained facilities. WCH was directed to work with the other contractors to validate and revise the functional requirements document as appropriate. WCH subsequently prepared a combined functional requirements document (Reference 6) working with PNNL, Fluor Hanford, and Johnson Controls, Inc.

Reference 5 notified WCH that the long-term retention of ancillary facilities at the 331 Complex (331-C, 331-D, 331-G, 331-H, and 331-P) is not planned by the Pacific Northwest Site Office (PNSO) and that the mitigation plan should assume their turnover in February 2011. It should be noted that 331-P is not currently in the RCC contract and a minor contract change will be needed to add it at a later date. (There is no impact to the utility relocations or mitigation sequencing from the addition although the demolition cost for 331-P is not included in the mitigation plan.)

Reference 7 provided guidance for WCH to assume a reduced funding level for FY 2008 (\$209,527K), lower than the level identified in the RCC contract. The letter identified a funding level of \$242,000K for FY09, equal to the 100% funding level identified in the RCC contract.

Reference 8 rescinded the direction to prepare additional scenarios that assumed added funding for utility relocations, and provided an extension to the assumed completion date for utility relocations to the end of fiscal year 2011 or the date of transfer for the last delayed release PNNL facility, whichever comes first.

Reference 9 directed WCH to remove facilities and waste sites at the 100K area from the baseline in the mitigation planning scenarios.

## Schedule Assumptions/RL Guidance

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Reference 10 directed WCH to assume a further delay in the release date of Building 320, to approximately July 2011 instead of February 2011.

The combination of References 1 through 10 resulted in the following set of assumptions used in this mitigation plan.

The following 300 Area facilities and underlying waste sites are retained long term (removed from the WCH contract):

- 318 Complex (318, 318B, 318C, MO-226)
- 325 Complex (325, 325A, 325B, 325C, 325D, 325E)
- 331 Building (331)
- 350 Complex (350, 350A, 350B, 350C, 350D)
- 339-A HLAN hub
- 3220 Telecommunications Hub
- 3709-A&B Fire Station
- 312 River Pump house
- 3507 Microwave Tower
- 318-BA Boiler Annex
- 325-BA Boiler Annex
- 331-BA Boiler Annex
- 3508-T1, -T2, -T3 Sirens
- JCI Trailers (MO-258, MO-262, MO-263)
- 3906B Lift Station
- 3906C Monitoring Station
- 352F Electrical Substation
- 351, 351A, 351B Electrical Substation
- 3614A Monitoring Station

Several additional facilities, not in the WCH contract, were identified for long-term retention and utility service:

- Subcontractor trailers (MO-675, 676, 677)
- Emergency preparedness sirens (3508-T1, -T2, -T3)
- Building 361

The following facilities are provided with the specified release dates for D4:

- |                          |               |
|--------------------------|---------------|
| • 323                    | October 2007  |
| • 3730                   | October 2007  |
| • 3718-P                 | October 2007  |
| • 336                    | October 2008  |
| • 338                    | October 2008  |
| • 3760 (and 323-BA)      | October 2009  |
| • 331C, 331D, 331G, 331H | February 2011 |
| • 329                    | February 2011 |
| • 320 (and 320-BA)       | July 2011     |

## Schedule Assumptions/RL Guidance

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106 D4 buildings, 2 Reactor ISS, and 87 waste sites at the 100K area are removed from the WCH contract.

Utilities will be provided to the retained facilities with completion of utility relocations not later than July 2011 (date of release of Building 320).

A funding level of \$209,527K is assumed for FY 2008 and 100% funding levels per the RCC contract are assumed for subsequent years.

Using these summarized assumptions, three separate scenarios are evaluated:

Scenario 1. 326, 326-BA released October 2009; 3790 released February 2011

Scenario 2. 326, 326-BA released February 2011; 3790 released February 2011

Scenario 3. 326, 326-BA released February 2011; 3790 retained long term

The results of the scenario evaluations are provided in Sections 5, 6, and 7 of this plan.



### 3.0 MITIGATION PLAN METHODOLOGY/APPROACH

#### 3.1 DEVELOPMENT OF THE ADJUSTED SCHEDULE

The mitigation plan was prepared by first developing a conceptual design for each of the four main utility systems needed in accordance with the functional requirements and design criteria for retained facilities (Reference 5). Appendices B through L provide the conceptual design development background and summaries for the selected utility relocation options. Cost estimates for the recommended utility options were prepared (Appendix A) and time-phased to match the necessary sequence of activities in support of facility and waste site remediation. The time-phasing of the utility cost estimate is described in Section 4.

A copy of the Integrated Project Baseline (IPB), stasured through March 2007, was used as the basis for the mitigation planning effort. The stasured IPB was used to reflect project progress and account for the ahead-of-schedule demolition of numerous structures, particularly in the 300 Area, that has been accomplished to date. The majority of the facilities that were originally planned in the IPB for completion in FY07-FY09 have already been completed, leaving some opportunity for the movement of additional scope such as utility relocations into the IPB while reducing the impact on the project funding profile. The stasured IPB reflects some logic and sequencing changes from the provisionally approved IPB caused by work being started or completed early, or uncompleted work being pushed by the data date in the Primavera P3 schedule.

Adjustments were made to the Primavera P3 schedules in the IPB to delete facilities and waste sites being removed from the RCC baseline as discussed in Section 3. In addition, constraint dates were introduced or adjusted for the specified delayed release facilities.

Additional adjustments were made to reflect observed scope increases in field remediation of burial ground waste sites. Consistent with performance to date, a 2.0 times increase was assumed for both the cost and quantity of excavation, loadout and waste disposal for burial grounds remaining "to go" in Contract Line Item (CLIN) 1 above assumed quantities provided in Table B.2 of the RCC contract. These adjustments were then offset by reducing the contingency work scope identified in the IPB. No adjustments were made for CLIN 3 scope.

A separate 25% increase was assumed for both the duration and the cost (but not the excavated quantity) for sixteen waste sites in the 300 Area that were evaluated as having added complexity due to the presence of active utility systems in the 300 Area beyond the timeframes assumed in the IPB (Appendix M). The affected sites did not include any burial grounds so there were no sites that received both a 2X increase and a 25% increase.

An increase to the Mission and General Support costs was also included to reflect current operational experience. These costs were included to account for added funding needs in the performance years, but they were not included in contingency and fee calculations or the final scope calculations because they do not represent an increase to the approved baseline scope.

A cost loading report was generated from the adjusted P3 schedules and compared against the funding profiles specified in the RCC contract. Funding levels of \$209.5M for FY 2008 and \$242M for FY 2009 were assumed per Reference 7 and 100% funding per the RCC contract was assumed for outyears. No reduction in the funding profile was assumed for the deletion of 100K or 300 Area scope. Where the initial cost loading reports resulted in a funding shortfall,



## Mitigation Plan Methodology/Approach

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scope was moved in the adjusted P3 file to balance the funding profile including the added utility scope and the cost loading report was regenerated. Multiple iterations were performed until an acceptable balanced profile was obtained and overall impacts to the RCC schedule and TPA milestones were minimized.

Contingency, fee and pension were calculated for each scenario as described in sections 3.2 through 3.4.

The process was repeated for each of the evaluation scenarios.

Results of the mitigation evaluations are provided in Sections 5 through 7.

### 3.2 CONTINGENCY CALCULATIONS

Contingency was calculated as follows:

- Burial Grounds and Non-Site Specific Support Estimate At Completion (EAC) and Waste Operations – Assumes quantity growth (2X) on the excavation scope for CLIN1 FR burial grounds remaining to go. The cost of the increased excavation scope (and ERDF disposal) was offset by a corresponding reduction (drawdown) of the contingency pool. However, because up to 15% of this growth falls within the contractual definition of Differing Site Conditions, and the other would become consideration for a Request for Equitable Adjustment (REA), 5% contingency has been calculated on the scope for the increased quantities (compared to the average 10.9% from the Integrated Project Baseline).
- FR Impact from Retained Utilities – Adjustments made to Field Remediation excavation estimates due to utility isolations, etc., impacting the complexity of sixteen 300 Area waste sites that would have otherwise been unimpeded by active utilities in the baseline. The Integrated Project Baseline average of 10.9% was applied to the increased excavation cost.
- Mission Support/General Support EAC – No contingency was applied to the Mission Support/General Support EAC because it does not represent added scope.
- Hotel Load for Schedule Extension – The Integrated Project Baseline average of 10.9% was applied.
- Remove K Area ISS, D4, FR and Waste Operations – The Integrated Project Baseline average of 10.9% was applied (deleted) for the reduced scope.
- Remove PNNL Buildings, Ancillary Facilities, Waste Sites and Waste Operations – The Integrated Project Baseline average of 10.9% was applied (deleted) for the reduced scope.
- Utility Relocation Project – A contingency value of 30% was applied to the estimate (Appendix A).

## Mitigation Plan Methodology/Approach

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### 3.3 FEE ESTIMATION

Fee was estimated as follows:

- In the Integrated Project Baseline fee was calculated at 7% of direct cost, contingency, and escalation (Target Cost). The same methodology was applied to develop a fee reduction estimate for this Mitigation Plan. The resulting reduction in fee was then subtracted from the fee assumed in the IPB, \$142.8M.
- This calculation was performed to estimate the appropriate annualized spread of fee to represent the annual funding needs of the project. However, the resulting fee does not include equitable adjustment for ahead-of-schedule project status through March 2007 (the data date used in the IPB for the mitigation plan exercise) which enabled the mitigation of additional scope being inserted in the IPB. This mitigation plan does not constitute a Request for Equitable Adjustment.

An example of the fee estimate calculation for Scenario 2 is demonstrated below:

Scope Adjustments:

Reductions:

Removal of K Area, ISS, D4, FR and Waste Operations component	-\$93M
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Removal of PNNL Buildings, Ancillary Facilities, Waste Sites and Waste Operations Component	-\$65M
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Additions:

FR Impacts from Retained Facilities	\$1.6M
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Hotel Load on Schedule Extension	\$8.9M
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Utility Relocation Project	\$9.3M
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Contingency & Escalation	-\$43.8M
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Delta Target Cost	-\$182.1M
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Delta Fee (0.07*\$182.1M)	-\$12.8M
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Total Fee (\$142.8M – \$12.8M)	\$130M
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### 3.4 PENSION CALCULATION

Pension was calculated as follows:

A factor of 0.01460136148373137 times the net change in direct cost after all additions and deletions of scope was calculated for each fiscal year. Each year's change in pension was escalated and summed to represent an overall pension change. The change in pension was then subtracted from the pension assumed in the original IPB (\$27.6M).



## 4.0 UTILITY RELOCATION PROJECT SUMMARY

### 4.1 BACKGROUND AND APPROACH

Development of an effective mitigation plan for long-term retention of selected 300 Area facilities required WCH to develop conceptual designs and cost estimates for the utility systems needed to serve the retained and delayed-release facilities. Pre-conceptual designs and rough order of magnitude cost estimates were developed in support of the October 2006 evaluation (Reference 2), and a draft functional requirements document from PNNL was provided by RL in Reference 4.

In late February through March 2007, WCH kicked off the design effort and conducted a workshop with participation from PNNL, Fluor Hanford, Lockheed Martin, JCI, RL, and PNSO to establish agreed-upon requirements and design criteria for the utility relocation project. A "core team" of key representatives of the responsible organizations was identified, and "functional teams" of technical staff were assigned including staff from the affected facilities, WCH, and subcontracted engineering support staff. Functional teams were established for each of four areas: Electrical, Water, Wastewater, and IT/Miscellaneous. The functional teams used the initial PNNL functional requirements document (Reference 4) as a starting point, and worked to identify a requirements-based set of criteria for use in the design phase. The Project Manager synthesized the inputs from each of the design teams into a combined Functional Requirements and Design Criteria document, 0300X-DC-G0001 which was reviewed by the Core Team, issued in the WCH document control system and transmitted to RL (Reference 5).

With support from subcontracted engineering staff, each of the functional teams developed pre-conceptual designs for the utility systems in their area of responsibility. In some cases multiple design options were identified because the RL guidance in Reference 3 was different than some of the assumptions used in the October 2006 evaluation, including the need to evaluate use of existing systems as an alternative to replacement. The WCH estimating department developed cost estimates for each of the design options. The Core Team and functional teams then reviewed each of the design options and cost estimates to select a recommended option for each utility system. Conceptual designs were developed for each of the selected options and a summary cost estimate was prepared for the utility relocation project (Appendices A-L).

The recommended utility system modifications identified during the conceptual design phase of the utility relocation project include the following systems which will be discussed further in this section:

- Electrical distribution (currently provided by the 351 substation)
- Potable water/fire water (currently provided by the 382 Water Complex)
- Wastewater systems including sanitary wastewater, process sewer, retention process sewer, and storm water
- Information Technology/telecommunications systems.

For each of the utility systems, a description of the planned approach and associated assumptions are provided below.

## Utility Relocation Project Summary

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The cost estimate for providing the necessary utility service modifications for the retained facilities is \$12 million as detailed in Appendix A.

### 4.2 ELECTRICAL DISTRIBUTION

Electrical power is currently distributed to the 300 Area facilities from the 351 substation in the northwest corner of the 300 Area. The primary distribution system uses 13.8kV and a backup 2400V system provides service to several facilities. Three of the retained facilities require a dual source of electrical power: the 325 building (currently served by 13.8 kV and 2400V), the 312 pump house (currently served by 13.8 kV and 2400V), and the 331 Building (currently served by two 13.8 kV sources). The recommended option is to retain the existing 351 substation and the majority of the distribution infrastructure. (Appendices B and C). However, several modifications are required to support reconfiguration of the electrical distribution system to a smaller footprint, elimination of several features scheduled for demolition as part of the RCC contract, and elimination of interferences with planned remediation activities. Four main modification activities are identified: North power feed, 325 feed, 312 Bio Pump feed, and West secondary feed. The North power feed modification consists of moving an overhead power line at the northeast corner of the 300 area slightly farther north and raising it using higher elevation power poles. This reduces interference with planned excavation of the 618-1 burial grounds in that area. The 325 feed consists of modifications to provide a secondary power feed to replace the function of the 3621-BC 2400V backup power distribution system with a second source of 13.8 kV feed. The 312 Bio Pump feed similarly replaces the 2400V backup power source for the 312 pump system. The West secondary feed reroutes underground power lines on the west side of the 300 area to overhead lines to avoid the potential for waste site excavation impacts. The electrical distribution system modifications are described in more detail in Appendix B.

### 4.3 WATER

The existing water supply to the 300 Area consists of a 16" main from the City of Richland feeding a pressure boosting and water distribution facility identified as the 382 Complex. The 382 Complex boosts the water pressure from the City of Richland's 50-60 psi supply pressure to approximately 115 psi and distributes the water via looped underground piping systems throughout the 300 Area for potable (domestic) requirements as well as fire protection and process water uses. Modifications to the 300 Area water system are needed to accommodate the demolition of old 300 Area buildings and remediation of waste sites and to assure a reasonable expectation of service life to the facilities planned for extended operation (> 20 years).

Because of the fire protection role of the water supply system, the 300 Area water system needs to have built in redundancy so that a single failure of the water supply, pumps, or mains will not prevent water from being supplied to the system for fire suppression. DOE standards require a looped fire protection water distribution system and the National Fire Protection Association requires a reliable water source. DOE standards also require "significant" facilities, such as facilities with a maximum possible fire loss in excess of \$1M or those which could cause unacceptable off-site consequences to health and safety, to be protected by an automatic fire suppression system (usually a Wet Pipe Sprinkler System).

## Utility Relocation Project Summary

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Recommended Option: As described in Appendices D and E, a new pumping station, consisting of two sanitary booster pumps, an electric fire water pump and a diesel driven fire water pump will be installed west of the 318 Building to replace the 382 Complex which will be demolished. The new pump station will be supplied by the existing 16" water main that currently serves the 300 Area. In order to eliminate the requirement for water storage, a second source of water is needed. A new 16" water main will be extended from the vicinity of Stevens Drive and Horn Rapids Road. This new main will then feed into the new pump station. The pump station will connect into the existing 300 Area underground water distribution system for the most part. Some new main distribution piping will be installed to facilitate the installation of the pump station and to ensure fire flow requirements are met. In addition, a 12" test discharge line will be installed from the pump station to the Cypress Street parking lot storm drainage swale located northwest of the proposed pump station location. This will provide for a means of collecting the water when the fire pumps are tested. Power for the new pump station will be provided by a new service supplied from the existing 13.8 kV 300 Area electrical infrastructure.

In addition to the replacement of the 382 Complex functionality, repairs are needed to ensure the required function of the water distribution system in the 300 Area and respond to regulator concerns regarding the presence of potentially leaking pressurized water mains in areas where waste sites are being left in place pending disposition of the retained facilities. Several 8" water distribution mains will be repaired using a scraping and mortar-lining process that has been used successfully at other Hanford site locations.

### 4.4 WASTEWATER

There are several wastewater streams currently generated by the retained and delayed release facilities as described in Appendix F. Sanitary (domestic) wastewater is collected in a sanitary sewer system that discharges through a series of gravity drains and lift stations and is routed through a monitoring station at the south end of the 300 Area before discharging to the City of Richland Publicly Owned Treatment Works (POTW). Process wastewater is collected in two streams, the Process Sewer (PS) and the Retention Process Sewer (RPS), both of which ultimately discharge to the 300 Area Treated Effluent Disposal Facility (310 TEDF). Storm water is collected in a variety of systems including surface discharges, injection wells, a storm water collection swale, and the process and retention process sewer systems.

#### 4.4.1 Sanitary Sewer

The City of Richland POTW will continue to receive the sanitary sewer discharge from the retained facilities. A series of new lift stations and force mains will be used to reroute the sanitary sewer systems away from areas that will be impacted by excavation as part of remediation activities. Three main branches of sanitary sewer will be addressed: facilities near Cypress Street, facilities near the 325 Building, and facilities near the 331 Building. Facilities near Cypress Street will be served by lift stations near the 3709A fire station and near the 320 Building. Facilities near the 325 Building will be served by lift stations near the northwest corner of the 325 Building along Spruce Street, discharging to the same line serving the Cypress Street facilities. Sanitary sewer systems from the 331 Building area will continue to be served by the existing sanitary sewer line and the 3906B lift station. Appendix G documents a decision meeting held to determine the recommended route for the sanitary wastewater from the 325 Building area. A sketch of the sanitary sewer design is provided in Appendix H.

## Utility Relocation Project Summary

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### 4.4.2 Process Sewer

Current contributors to the process sewer will be split into three disposition pathways and discharges to the 310 TEDF will be discontinued. Storm water contributors will be addressed as described in Section 4.4.4. Process sewer discharges from Buildings 326 and 329 will be combined with the Retention Process Sewer stream as described in Section 4.4.3. Remaining process contributors in the 318, 320, and 331 buildings will be permitted using the City of Richland Municipal Pretreatment Permit process and tied into the sanitary sewer system.

### 4.4.3 Retention Process Sewer

Retention process sewer discharges are currently collected from the 324, 325, 326, 327, and 329 buildings and flow by gravity to the 307 Retention Basins near the 340 Building. The discharges from 324 and 327 will be terminated as part of ongoing deactivation activities. Remaining contributors from 325, 326 and 329 will be collected from a retention process sewer manhole and transferred to a new effluent containment/pumping system located north of the 325 Building atop the slab from the 328 Building. The system will consist of four storage tanks, pumps and sampling capabilities. The system will be capable of discharging the effluent to the sanitary sewer system or pumping into a tanker truck for disposal. Process sewer contributors from the 326 and 329 buildings would also be tied into the RPS discharge and collected in the new tank system. The RPS conceptual design is provided in Appendix I.

### 4.4.4 Storm water

Two existing storm drain catch basins, which are located near the southeast corner of the 329 Building, are currently routed to the RPS system. In order to eliminate this flow potential to the new 325 Building RPS system, the outflow from these two catch basins will be rerouted to the existing Cypress Street parking lot drainage system. This system discharges into a grassy swale located in the southwest corner of the lot.

Additional storm water discharges have been identified that are cross-connected to either the process sewer or sanitary sewer systems. These cross-connections will be eliminated prior to the tie-in of remaining process sewer contributors to the City of Richland POTW. Examples include the rerouting of roof drains at the 3709A fire station, plugging catch basins near the 3790 parking lot, and rerouting equipment room drains and storm drains at the 331 Building. Appendix J provides sketches of the proposed storm water modifications.

## 4.5 INFORMATION TECHNOLOGY

The current fiber optic and copper network providing data and voice telecommunications service to the 300 Area will be impacted by planned remediation activities near the 309 Building. The majority of the existing systems are routed along New Mexico Street through the 3506-C building. As described in Appendix K, the recommended option is to convert the majority of the data systems to a PNNL-based switch system based in the 318 Building, and provide voice over data service to replace the existing telephone services. Appendix L provides a sketch of the final proposed configuration of the IT systems.

Short-term occupied buildings will remain on the existing services until demolition of the buildings. Temporary services will be routed to delayed release facilities such as 320, 326 and

## Utility Relocation Project Summary

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329. Telephone services in these buildings will remain on the Hanford IVDTs service unless the copper cabling feeding these buildings is also impacted by the remediation activities.

### **4.6 MISCELLANEOUS (NATURAL GAS, STEAM, COMPRESSED AIR, STANDBY GENERATORS)**

The boiler annexes serving the retained facilities are operated and maintained by JCI. Services for the boiler annexes come from retained facilities. The air compressors, which are located inside PNNL facilities, are owned and maintained by JCI, but are operated by PNNL. Standby generators are operated and maintained by JCI for the 325 and 331 Buildings. No changes to the configuration of these services at retained facilities are planned. Natural gas lines serving the boilers will be left in place.

### **4.7 CONSTRUCTION SCHEDULE/PRIORITIZATION**

The following constraints were used for the time phasing of utility relocations.

Sanitary sewer modifications for the 318, 320, 3709A&B, 339A, and 3220 facilities were prioritized for completion ahead of the excavation of waste site 618-1 due to interference between an active sanitary sewer line and the waste site excavation. Due to funding constraints the 618-1 waste site was rescheduled to start in late fiscal year 2008.

Electrical utility modifications for the northeast corner of the 300 area fence line were prioritized for completion ahead of the excavation of waste site 618-1 due to interference between the overhead electrical lines and the movement of heavy equipment into the waste site, and the potential need for the excavation to undermine several power poles.

Retention process sewer modifications at 325, 326, and 329 are needed prior to September 2009 to support shutdown of the 307 Basins and turnover of the 340 Complex from the PHMC to WCH for demolition.

Storm water modifications to eliminate cross-connections between storm water and process sewer are needed prior to September 2009 to allow the transition of remaining process sewer contributors to sanitary sewer and shutdown of the 300 Area Treated Effluent Disposal Facility at the end of FY 2009.

Water system modifications (replacement of the 382 complex) were planned for FY10 because of funding constraints.

The majority of the contingency portion of the utility cost estimates was loaded in FY10-FY11.

A summary of the utility cost estimate time-phasing is provided below.



			FY 2007		FY 2008		FY 2009		FY 2010		FY 2011	
			scope	cost	scope	cost	scope	cost	scope	cost	scope	cost
	TEC (\$1000s)			(\$1000s)		(\$1000s)		(\$1000s)		(\$1000s)		(\$1000s)
<b>Water System Modifications - 382 Replacement</b>	<b>\$3,867</b>						design	\$244	50% of scope	\$1,812	50% of scope	\$1,811
<b>Water System Modifications - Distribution system repair</b>	<b>\$1,343</b>						design	\$85	50% of scope	\$629	50% of scope	\$629
<b>Retention Process Sewer Modifications</b>	<b>\$1,316</b>		design	\$83	50% of scope	\$617	50% of scope	\$616				
<b>Sanitary and Process Sewer Modifications</b>	<b>\$1,625</b>		design	\$102	Sanitary sewer Cypress facilities	\$662	Process tie in to sanitary	\$100			325 sanitary sewer	\$761
<b>Storm Sewer Modifications</b>	<b>\$1,299</b>		design	\$82	50% of scope	\$609	50% of scope	\$608				
<b>Electrical System Modifications - Option 1</b>	<b>\$1,383</b>		design	\$87	North power feed	\$170	325 Feed, Bio Pump feed, West secondary feed	\$1,126				
<b>Information Technology System Modifications</b>	<b>\$870</b>				design	\$55	start installation	\$200	finish installation	\$615		
<b>Total</b>	<b>\$11,703</b>			<b>\$354</b>		<b>\$2,113</b>		<b>\$2,979</b>		<b>\$3,056</b>		<b>\$3,201</b>

## 5.0 SCENARIO 1: RETENTION AND RELEASE DATES AS SPECIFIED WITH 326 BUILDING RELEASED OCTOBER 2009

### 5.1 SUMMARY

Scenario 1 is the release of Buildings 326 and 326-BA in October 2009 and the release of Building 3790 in February 2011. D4 buildings (106), ISS reactors (2), and FR waste sites (87) in the 100K area are deleted from scope. Retained facilities in the 300 Area are deleted from scope and release dates for selected 300 Area facilities are assigned as specified. The scenario assumptions are summarized below.

The following 300 Area facilities and underlying waste sites are retained long term (removed from the WCH contract):

- 318 Complex (318, 318B, 318C, MO-226)
- 325 Complex (325, 325A, 325B, 325C, 325D, 325E)
- 331 Building (331)
- 350 Complex (350, 350A, 350B, 350C, 350D)
- 339-A HLAN hub
- 3220 Telecommunications Hub
- 3709-A&B Fire Station
- 312 River Pumphouse
- 3507 Microwave Tower
- 318-BA Boiler Annex
- 325-BA Boiler Annex
- 331-BA Boiler Annex
- 3508-T1, -T2, -T3 Sirens
- JCI Trailers (MO-258, MO-262, MO-263)
- 3906B Lift Station
- 3906C Monitoring Station
- 352F Electrical Substation
- 351, 351A, 351B Electrical Substation
- 3614A Monitoring Station

Several additional facilities, not in the WCH contract, were identified for long-term retention and utility service:

- Subcontractor trailers (MO-675, 676, 677)
- Emergency preparedness sirens (3508-T1, -T2, -T3)
- Building 361

The following facilities are provided with the specified release dates for D4:

- 323 October 2007
- 3730 October 2007
- 3718-P October 2007

- 336 October 2008
- 338 October 2008
- 3760 (and 323-BA) October 2009
- 326 (and 326-BA) October 2009
- 331C, 331D, 331G, 331H February 2011
- 329 February 2011
- 3790 February 2011
- 320 (and 320-BA) July 2011

The following 300 Area waste sites are removed from RCC scope:

- Confirmatory sites 331 LSLT1 and 331 LSLT2
- Remediation sites 300-175, 300-4, 300-269, 325 WTF, UPR-300-10, UPR-300-12, and UPR-300-48

ERDF waste disposal costs associated with waste quantities from the deleted buildings and waste sites were eliminated.

The 100K Area D4, Interim Safe Storage (ISS) and FR activities (with the exception of sites already completed and the 118-K-1 Burial Ground) were removed from WCH scope in all mitigation plan scenarios per RL direction (Reference 9). Deletions included 106 D4 buildings, 2 reactor ISS, and 87 waste sites. Waste quantities associated with these reductions were also removed from the ERDF disposal costs.

## **5.2 D4 IMPACTS**

The majority of D4 impacts from the delayed release of identified facilities and insertion of additional scope into the baseline are mitigated by the deletion of 100K and 300 area scope and the ahead-of-schedule status of D4 activities. Additional mitigation was accomplished by assuming an early start of the Planning and Documentation phase of D4 activities for the 329 Building (ahead of the February 2011 release date) and by accelerating the release of several PNNL buildings as stated in the scenario assumptions. The resulting schedule avoided a critical path impact from the 17-21 month delays in release of specified PNNL facilities.

The below-grade demolition portion of several D4 facilities was removed from scope because of the proximity of the buildings to long-term retained facilities. The 326, 329, 328, and 328-A buildings will be demolished to grade level only.

## **5.3 FIELD REMEDIATION IMPACTS**

Field Remediation impacts from the 300 Area building retention include the long-term retention (removal from the RCC contract) of waste sites underlying or immediately adjacent to the retained facilities, and increased complexity and cost for waste sites in proximity to active utility systems that will remain to serve the retained facilities.

The following waste sites were retained (deleted):

- Confirmatory sites 331 LSLT1 and 331 LSLT2
- Remediation sites 300-175, 300-4, 300-269, 325 WTF, UPR-300-10, UPR-300-12, and UPR-300-48

The following waste sites were determined to have the potential for increased excavation complexity and cost due to their proximity to active utility systems as described in Appendix M:

- 300-5
- 300-15
- 300-95
- 300-121
- 300-214
- 300-255
- 300-257
- 300-264
- 300-265
- 300-RLWS
- 300-RRLWS
- 309-TW-1
- 309-TW-2
- 309-TW-3
- 316-3
- UPR-300-4

For these sites, the excavation duration and cost were increased by a factor of 25% to account for the added complexity.

#### **5.4 TPA IMPACTS**

- Tri-Party Agreement (TPA) milestone impacts from the mitigation plan were limited to those sites already identified for changes as discussed above for the 100 areas, and 300 area milestones directly affected by the retention of waste sites or buildings identified in milestones. The following 300 Area milestones are affected:

**M-016-00:** Complete Remedial Actions for all non-Tank Farms Operable Units by 9/30/2024.

**Impact:** Waste sites underlying the retained facilities or retained active utility systems will not be completed as part of the RCC scope. They will be deferred until the retained facilities are vacated (20+ years).

**M-016-00B:** Complete all interim 300 Area remedial actions including the 618-10 and 618-11 burial grounds by 9/30/2018.

**Impact:** Waste sites underlying the retained facilities or retained active utility systems will not be completed as part of the RCC scope. They will be deferred until the retained facilities are vacated (20+ years).

**M-016-69:** Complete all interim 300 Area remedial actions to include confirmatory sampling of all candidate sites listed in the 300-FF-2 ROD (except 618-10 and 618-11 burial grounds) by 9/30/2015.

**Impact:** Waste sites underlying the retained facilities or retained active utility systems will not be completed as part of the RCC scope. They will be deferred until the retained facilities are vacated (20+ years).

**M-016-74:** Complete interim remediation(to include excavation, loadout, closeout sampling, backfill and revegetation), for all 300 Area “inside the fence” waste sites north of Apple Street, except for the 300-RLWS, 300-15, 300-4, 300-268 and 300-123 waste sites remediation need only be completed through excavation and loadout by 9/30/2012.

**Impact:** Waste site 300-4 and portions of 300-RLWS and 300-15 are retained and should be removed from the milestone.

**M-094-00:** Complete disposition of 300 Area surplus facilities to be defined as the 220 facilities listed in the Hanford River Corridor Closure Contract Solicitation #DE-RP06-04RL14655 by 9/30/2015.

**Impact:** Milestone reference to 220 facilities and reference to #DE-RP06-04RL14655 are outdated. By updating the references the existing milestone for “surplus” facilities (excluding the retained facilities) can be met.

**M-094-06, -07, -08, 09:** Complete the selected removal and/or remedial actions that are selected for XX of the following 19 high priority facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 Trench and 3720. (Multiple dates)

**Impact:** Editorial impact, 325 building should be deleted and total number of facilities reduced. Each of the specific milestones can be met with no impact.

In addition to the listed impacts from the 300 Area Building Retention Scenario itself, there are several TPA impacts shown in the adjusted schedule. These are not caused by the 300 area mitigation activities but reflect conditions of waste sites and remediation status in the 100 and 300 areas. One waste site near the 300 area, 618-7, is currently behind schedule for starting excavation because it is a high risk activity and is being deferred until completion of the project's Integrated Safety Management System (ISMS) verification and readiness evaluations. The schedule shows completion of the site later than the TPA milestone. Several 100 area milestones are also under negotiation such as milestones for 100 B/C, 100 H, and IU-2 and IU-6. Again these milestone impacts are not related to the 300 area mitigation plan activities but the schedule reflects the current and planned status of the sites.

## **5.5 OVERALL SCHEDULE IMPACT**

Due to the mitigation activities described in Section 5.2, there was no overall change to the RCC end date of August 29, 2013 in this mitigation scenario. Note that this does not reflect an adjustment to the target date for the RCC Contract for use in calculating the schedule acceleration performance fee which would be addressed in a separate Request for Equitable Adjustment.

## **5.6 COST IMPACT**

This scenario resulted in a net decrease to the total project cost of approximately \$220M as shown in the cost spreadsheet (Figure 5-1). Scope deletions from the 100K area totaled \$125M (\$110M including contingency and escalation and \$15M for ERDF disposal costs). Scope deletions from the 300 Area totaled \$89M (\$85M including contingency and escalation and \$4M for ERDF disposal costs). Scope additions included \$1.6M for added complexity of sixteen waste sites in the 300 Area, and \$12.7M for the utility relocation project including escalation and contingency. The net change in scope was a reduction of \$200.1M. An additional \$19.8M of reductions in fee, pension and miscellaneous were deleted based on the scope reductions.

Figure 5-1. Cost Evaluation Spreadsheet for Scenario 1.

300 Area Building Retention Evaluation  
Mitigation Plan  
Scenario 1

Mitigation Plan - Scenario 1	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
IPB To Go Budget (March 2007)	208,436,404	210,226,022	216,207,101	270,622,643	341,291,045	399,760,675	173,984,584	-	-	2,036,733,216
Schedule and Contingency Adjustments to Balance Funding	(5,709,699)	(6,517,881)	(10,399,825)	(429,596)	19,658,379	(44,641,233)	(48,789,454)	-	-	(96,308,958)
Adjustments:										
Mission Support/General Support EAC	-	3,913,773	4,065,044	4,446,624	4,950,635	5,249,656	4,280,759	-	-	26,906,490
Burial Grounds and Non-Site Specific Support EAC	4,637,273	7,775,084	15,945,384	30,110,650	11,386,762	5,106,810	1,453,186	-	-	76,415,149
Waste Operations from Above	1,915,461	-	3,941,303	9,920,514	3,180,796	517,405	-	-	-	19,475,480
Scope Deletions:										
Remove K Area ISS, D4 and FR	(4,127,405)	(19,191,147)	(3,916,305)	(14,004,301)	(37,230,300)	(25,341,832)	(6,221,508)	-	-	(110,032,799)
Adjust ERDF for K Area ISS, D4 and FR Deletions	(48,457)	(2,703,563)	(756,514)	(589,828)	(3,740,130)	(7,176,310)	(174,237)	-	-	(15,189,039)
Remove PNNL Buildings/Ancillary Facilities/Waste Sites	(70,325)	(48,809)	(7,714)	(21,176,746)	(39,537,587)	(22,599,030)	(1,501,125)	-	-	(84,941,336)
Adjust ERDF for PNNL Buildings/Ancillary Facilities/Waste Sites Deletions	-	(126)	-	(24,754)	(223,978)	(2,976,494)	(1,026,896)	-	-	(4,252,248)
<b>Sub Total Deletes</b>	<b>(4,246,187)</b>	<b>(21,943,645)</b>	<b>(4,680,533)</b>	<b>(35,795,630)</b>	<b>(80,731,996)</b>	<b>(68,093,666)</b>	<b>(8,923,766)</b>	-	-	<b>(214,415,422)</b>
Scope Additions:										
FR Impact from Retained Utilities	-	-	3,993	106,298	965,153	539,195	-	-	-	1,614,639
Hotel Lead for Schedule Extension	-	-	-	-	-	-	-	-	-	-
Utility Relocation Project	354,000	2,178,714	3,165,639	3,346,836	3,614,310	-	-	-	-	12,659,499
<b>SubTotal Additions</b>	<b>354,000</b>	<b>2,178,714</b>	<b>3,169,632</b>	<b>3,453,134</b>	<b>4,579,463</b>	<b>539,195</b>	-	-	-	<b>14,274,138</b>
<b>Delta Totals</b>	<b>(3,892,187)</b>	<b>(19,764,931)</b>	<b>(1,510,901)</b>	<b>(32,342,496)</b>	<b>(76,162,532)</b>	<b>(67,554,472)</b>	<b>(8,923,766)</b>	-	-	<b>(200,141,284)</b>
<b>TOTAL</b>	<b>\$205,397,252</b>	<b>\$195,632,067</b>	<b>\$226,248,106</b>	<b>\$282,328,339</b>	<b>\$304,315,085</b>	<b>\$308,458,840</b>	<b>\$122,005,308</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,863,080,093</b>
Fee (7%)	\$10,160,500	\$10,813,500	\$10,813,500	\$10,813,500	\$10,813,500	\$10,813,500	\$10,813,500	\$40,107,716	\$0	\$129,095,216
Pension (Escalated)	\$3,037,540	\$2,984,435	\$2,933,042	\$3,786,577	\$4,457,486	\$3,532,689	\$1,345,146	\$0	\$0	\$24,940,705
<b>Total Project</b>	<b>\$218,595,292</b>	<b>\$209,430,002</b>	<b>\$241,994,648</b>	<b>\$296,928,416</b>	<b>\$319,586,071</b>	<b>\$322,805,029</b>	<b>\$134,163,954</b>	<b>\$40,107,716</b>	<b>\$0</b>	<b>\$2,017,116,013</b>
Less Mission Support/General Support EAC	-	(3,913,773)	(4,065,044)	(4,446,624)	(4,950,635)	(5,249,656)	(4,280,759)	-	-	(26,906,490)
<b>Baseline Total Project (IPB Rev.0)</b>	<b>\$212,000,000</b>	<b>\$232,000,000</b>	<b>\$242,000,000</b>	<b>\$297,000,000</b>	<b>\$376,000,000</b>	<b>\$406,000,000</b>	<b>\$242,156,383</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,210,156,386</b>
<b>Total Project Delta</b>	<b>-\$6,595,292</b>	<b>\$26,483,771</b>	<b>\$4,070,396</b>	<b>\$4,519,209</b>	<b>\$61,364,564</b>	<b>\$88,444,626</b>	<b>\$112,273,187</b>	<b>-\$40,107,716</b>	<b>\$0</b>	<b>\$219,946,861</b>
Funding (100%)	\$212,036,287	\$209,507,000	\$242,000,000	\$297,000,001	\$376,000,000	\$406,000,000	\$416,000,000	\$409,000,000	\$299,000,000	\$3,067,817,110
<b>Delta to Funding</b>	<b>-\$6,550,005</b>	<b>\$72,262</b>	<b>\$54,106</b>	<b>\$721,833</b>	<b>\$66,834,659</b>	<b>\$76,199,677</b>	<b>\$260,076,629</b>	<b>\$365,207,360</b>	<b>\$299,000,000</b>	<b>\$1,019,232,674</b>

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## 6.0 SCENARIO 2: RETENTION AND RELEASE DATES AS SPECIFIED WITH 326 BUILDING RELEASED FEBRUARY 2011

### 6.1 SUMMARY

Scenario 2 is the release of Buildings 326 and 326-BA in February 2011 and the release of Building 3790 in February 2011. D4 buildings (106), ISS reactors (2), and FR waste sites (87) in the 100K area are deleted from scope. Retained facilities in the 300 Area are deleted from scope and release dates for selected 300 Area facilities are assigned as specified. The scenario assumptions are summarized below.

The following 300 Area facilities and underlying waste sites are retained long term (removed from the WCH contract):

- 318 Complex (318, 318B, 318C, MO-226)
- 325 Complex (325, 325A, 325B, 325C, 325D, 325E)
- 331 Building (331)
- 350 Complex (350, 350A, 350B, 350C, 350D)
- 339-A HLAN hub
- 3220 Telecommunications Hub
- 3709-A&B Fire Station
- 312 River Pumphouse
- 3507 Microwave Tower
- 318-BA Boiler Annex
- 325-BA Boiler Annex
- 331-BA Boiler Annex
- 3508-T1, -T2, -T3 Sirens
- JCI Trailers (MO-258, MO-262, MO-263)
- 3906B Lift Station
- 3906C Monitoring Station
- 352F Electrical Substation
- 351, 351A, 351B Electrical Substation
- 3614A Monitoring Station

Several additional facilities, not in the WCH contract, were identified for long-term retention and utility service:

- Subcontractor trailers (MO-675, 676, 677)
- Emergency preparedness sirens (3508-T1, -T2, -T3)
- Building 361

The following facilities are provided with the specified release dates for D4:

- 323 October 2007
- 3730 October 2007
- 3718-P October 2007
- 336 October 2008
- 338 October 2008



- 3760 (and 323-BA) October 2009
- 326 (and 326-BA) February 2011
- 331C, 331D, 331G, 331H February 2011
- 329 February 2011
- 3790 February 2011
- 320 (and 320-BA) July 2011

The following 300 Area waste sites are removed from RCC scope:

- Confirmatory sites 331 LSLT1 and 331 LSLT2
- Remediation sites 300-175, 300-4, 300-269, 325 WTF, UPR-300-10, UPR-300-12, and UPR-300-48

ERDF waste disposal costs associated with waste quantities from the deleted buildings and waste sites were eliminated.

The 100K Area D4, Interim Safe Storage (ISS) and FR activities (with the exception of sites already completed and the 118-K-1 Burial Ground) were removed from WCH scope in all mitigation plan scenarios per RL direction (Reference 9). Deletions included 106 D4 buildings, 2 reactor ISS, and 87 waste sites. Waste quantities associated with these reductions were also removed from the ERDF disposal costs.

## **6.2 D4 IMPACTS**

The majority of D4 impacts from the delayed release of identified facilities and insertion of additional scope into the baseline are mitigated by the deletion of 100K and 300 area scope and the ahead-of-schedule status of D4 activities. Additional mitigation was accomplished by assuming an early start of the Planning and Documentation phase of D4 activities for the 326 and 329 Buildings (ahead of the February 2011 release date) and by accelerating the release of several PNNL buildings as stated in the scenario assumptions. The resulting schedule significantly reduced the critical path impact from the 17-21 month delays in release of specified PNNL facilities. The 326 Building caused a critical path delay of six weeks, impacting the completion of the RCC contract as described in Section 6.5.

The below-grade demolition portion of several D4 facilities was removed from scope because of the proximity of the buildings to long-term retained facilities. The 326, 329, 328, and 328-A buildings will be demolished to grade level only.

## **6.3 FIELD REMEDIATION IMPACTS**

Field Remediation impacts from the 300 Area building retention include the long-term retention (removal from the RCC contract) of waste sites underlying or immediately adjacent to the retained facilities, and increased complexity and cost for waste sites in proximity to active utility systems that will remain to serve the retained facilities.

The following waste sites were retained (deleted):

- Confirmatory sites 331 LSLT1 and 331 LSLT2
- Remediation sites 300-175, 300-4, 300-269, 325 WTF, UPR-300-10, UPR-300-12, and UPR-300-48

The following waste sites were determined to have the potential for increased excavation complexity and cost due to their proximity to active utility systems as described in Appendix M:

- 300-5
- 300-15
- 300-95
- 300-121
- 300-214
- 300-255
- 300-257
- 300-264
- 300-265
- 300-RLWS
- 300-RRLWS
- 309-TW-1
- 309-TW-2
- 309-TW-3
- 316-3
- UPR-300-4

For these sites, the excavation duration and cost were increased by a factor of 25% to account for the added complexity.

#### **6.4 TPA IMPACTS**

- Tri-Party Agreement (TPA) milestone impacts from the mitigation plan were limited to those sites already identified for changes as discussed above for the 100 areas, and 300 area milestones directly affected by the retention of waste sites or buildings identified in milestones. The following 300 Area milestones are affected:

**M-016-00:** Complete Remedial Actions for all non-Tank Farms Operable Units by 9/30/2024.

**Impact:** Waste sites underlying the retained facilities or retained active utility systems will not be completed as part of the RCC scope. They will be deferred until the retained facilities are vacated (20+ years).

**M-016-00B:** Complete all interim 300 Area remedial actions including the 618-10 and 618-11 burial grounds by 9/30/2018.

**Impact:** Waste sites underlying the retained facilities or retained active utility systems will not be completed as part of the RCC scope. They will be deferred until the retained facilities are vacated (20+ years).

**M-016-69:** Complete all interim 300 Area remedial actions to include confirmatory sampling of all candidate sites listed in the 300-FF-2 ROD (except 618-10 and 618-11 burial grounds) by 9/30/2015.

**Impact:** Waste sites underlying the retained facilities or retained active utility systems will not be completed as part of the RCC scope. They will be deferred until the retained facilities are vacated (20+ years).

**M-016-74:** Complete interim remediation(to include excavation, loadout, closeout sampling, backfill and revegetation), for all 300 Area “inside the fence” waste sites north of Apple Street, except for the 300-RLWS, 300-15, 300-4, 300-268 and 300-123 waste sites remediation need only be completed through excavation and loadout by 9/30/2012.

**Impact:** Waste site 300-4 and portions of 300-RLWS and 300-15 are retained and should be removed from the milestone.

**M-094-00:** Complete disposition of 300 Area surplus facilities to be defined as the 220 facilities listed in the Hanford River Corridor Closure Contract Solicitation #DE-RP06-04RL14655 by 9/30/2015.

**Impact:** Milestone reference to 220 facilities and reference to #DE-RP06-04RL14655 are outdated. By updating the references the existing milestone for “surplus” facilities (excluding the retained facilities) can be met.

**M-094-06, -07, -08, 09:** Complete the selected removal and/or remedial actions that are selected for XX of the following 19 high priority facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 Trench and 3720. (Multiple dates)

**Impact:** Editorial impact, 325 building should be deleted and total number of facilities reduced. Each of the specific milestones can be met with no impact.

In addition to the listed impacts from the 300 Area Building Retention Scenario itself, there are several TPA impacts shown in the adjusted schedule. These are not caused by the 300 area mitigation activities but reflect conditions of waste sites and remediation status in the 100 and 300 areas. One waste site near the 300 area, 618-7, is currently behind schedule for starting excavation because it is a high risk activity and is being deferred until completion of the project's Integrated Safety Management System (ISMS) verification and readiness evaluations. The schedule shows completion of the site later than the TPA milestone. Several 100 area milestones are also under negotiation such as milestones for 100 B/C, 100 H, and IU-2 and IU-6. Again these milestone impacts are not related to the 300 area mitigation plan activities but the schedule reflects the current and planned status of the sites.

## **6.5 OVERALL SCHEDULE IMPACT**

Due to the mitigation activities described in Section 6.2, there was a significantly reduced impact to the RCC end date of August 29, 2013 in this mitigation scenario. The 326 building is on the critical path for 300 Area D4 activities in the IPB. Although this scenario introduces a 17-month delay in the 326 building release date, the scenario results in a mitigation of all but a six week extension in the completion date, from August 29, 2013 to October 15, 2013. Note that this does not reflect an adjustment to the target date for the RCC Contract for use in calculating the schedule acceleration performance fee which would be addressed in a separate Request for Equitable Adjustment.

## **6.6 COST IMPACT**

This scenario resulted in a net decrease to the total project cost of approximately \$205M as shown in the cost spreadsheet (Figure 6-1). Scope deletions from the 100K area totaled \$125M (\$110M including contingency and escalation and \$15M for ERDF disposal costs). Scope deletions from the 300 Area totaled \$89M (\$85M including contingency and escalation and \$4M for ERDF disposal costs). Scope additions included \$1.6M for added complexity of sixteen waste sites in the 300 Area, \$12.7M for the utility relocation project including escalation and contingency, and \$12.9M in time-related costs (hotel load) for the six week contract extension. The net change in scope was a reduction of \$187.2M. An additional \$18.2M of reductions in fee, pension and miscellaneous were deleted based on the scope reductions.

Figure 6-1. Cost Evaluation Spreadsheet for Scenario 2.

300 Area Building Retention Evaluation  
Mitigation Plan  
Scenario 2

Mitigation Plan - Scenario 2	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
IPB To Go Budget (March 2007)	208,436,404	210,226,022	216,207,101	270,822,843	341,291,045	399,780,675	173,984,584	-	-	2,036,733,216
Schedule and Contingency Adjustments to Balance Funding	(5,709,699)	(6,513,146)	(10,448,578)	(1,079,843)	9,237,649	(37,504,827)	(44,479,080)	167,641	-	(95,809,532)
Adjustments:										
Mission Support/General Support EAC	-	3,913,773	4,065,044	4,446,624	4,950,635	5,249,656	4,280,759	-	-	26,906,490
Burial Grounds and Non-Site Specific Support EAC	4,637,273	7,775,084	15,945,384	30,110,650	11,386,762	5,106,810	1,453,186	-	-	76,415,149
Waste Operations from Above	1,915,461	-	3,941,303	9,920,514	3,180,796	517,405	-	-	-	19,475,480
Scope Deletions:										
Remove K Area ISS, D4 and FR	(4,127,405)	(19,191,147)	(3,916,305)	(14,004,301)	(37,230,300)	(25,341,832)	(6,221,508)	-	-	(110,032,799)
Adjust ERDF for K Area ISS, D4 and FR Deletions	(48,457)	(2,703,563)	(756,514)	(589,828)	(3,740,130)	(7,176,310)	(174,237)	-	-	(15,189,039)
Remove PNNL Buildings/Ancillary Facilities/Waste Sites	(70,325)	(48,809)	(7,714)	(21,176,746)	(39,537,587)	(22,599,030)	(1,501,125)	-	-	(84,941,336)
Adjust ERDF for PNNL Buildings/Ancillary Facilities/Waste Sites Deletions	-	(126)	-	(24,754)	(223,978)	(2,976,494)	(1,026,696)	-	-	(4,252,248)
<b>Sub Total Deletes</b>	<b>(4,246,167)</b>	<b>(21,943,645)</b>	<b>(4,680,533)</b>	<b>(35,795,630)</b>	<b>(80,731,995)</b>	<b>(59,093,666)</b>	<b>(8,923,766)</b>	-	-	<b>(214,415,422)</b>
Scope Additions:										
FR Impact from Retained Utilities	-	-	3,993	106,298	965,153	539,195	-	-	-	1,614,639
Hotel Load for Schedule Extension	-	-	-	-	-	-	10,006,891	2,928,089	-	12,934,980
Utility Relocation Project	354,000	2,178,714	3,165,639	3,346,836	3,614,310	-	-	-	-	12,659,499
<b>SubTotal Additions</b>	<b>354,000</b>	<b>2,178,714</b>	<b>3,169,632</b>	<b>3,453,134</b>	<b>4,579,463</b>	<b>539,195</b>	<b>10,006,891</b>	<b>2,928,089</b>	-	<b>27,209,118</b>
<b>Delta Totals</b>	<b>(3,892,167)</b>	<b>(19,764,931)</b>	<b>(1,510,901)</b>	<b>(32,342,496)</b>	<b>(76,152,532)</b>	<b>(57,554,472)</b>	<b>1,083,125</b>	<b>2,928,089</b>	-	<b>(197,206,304)</b>
<b>TOTAL</b>	<b>\$205,387,252</b>	<b>\$196,636,803</b>	<b>\$228,199,353</b>	<b>\$281,678,092</b>	<b>\$293,894,355</b>	<b>\$315,595,246</b>	<b>\$136,322,573</b>	<b>\$3,095,730</b>	<b>\$0</b>	<b>\$1,876,614,499</b>
Fee (7%)	\$10,160,500	\$10,813,500	\$10,813,500	\$10,813,500	\$10,813,500	\$10,813,500	\$10,813,500	\$41,013,164	\$0	\$130,000,864
Pension (Escalated)	\$3,037,540	\$2,984,435	\$2,933,042	\$3,786,577	\$4,457,486	\$3,532,689	\$1,476,920	\$38,558	\$0	\$25,111,036
<b>Total Project</b>	<b>\$218,585,292</b>	<b>\$209,434,738</b>	<b>\$241,945,895</b>	<b>\$296,278,169</b>	<b>\$309,165,341</b>	<b>\$329,941,435</b>	<b>\$148,612,993</b>	<b>\$44,147,452</b>	<b>\$0</b>	<b>\$2,031,626,199</b>
Less Mission Support/General Support EAC	-	(3,913,773)	(4,065,044)	(4,446,624)	(4,950,635)	(5,249,656)	(4,280,759)	-	-	(26,906,490)
<b>Baseline Total Project (IPB Rev.0)</b>	<b>\$212,000,000</b>	<b>\$232,000,000</b>	<b>\$242,000,000</b>	<b>\$297,000,000</b>	<b>\$376,000,000</b>	<b>\$406,000,000</b>	<b>\$242,156,383</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,210,156,385</b>
<b>Total Project Delta</b>	<b>-\$6,585,292</b>	<b>\$26,479,035</b>	<b>\$4,119,149</b>	<b>\$6,168,455</b>	<b>\$71,785,294</b>	<b>\$81,308,220</b>	<b>\$97,824,149</b>	<b>-\$44,147,452</b>	<b>\$0</b>	<b>\$206,436,676</b>
Funding (100%)	\$212,035,297	\$209,507,000	\$242,000,000	\$297,000,001	\$376,000,000	\$406,143,783	\$416,000,000	\$409,000,000	\$299,000,000	\$3,067,817,110
<b>Delta to Funding</b>	<b>-\$6,560,005</b>	<b>\$72,262</b>	<b>\$54,105</b>	<b>\$721,833</b>	<b>\$66,834,659</b>	<b>\$76,199,677</b>	<b>\$250,076,629</b>	<b>\$365,207,360</b>	<b>\$299,000,000</b>	<b>\$1,019,232,674</b>



- 336 October 2008
- 338 October 2008
- 3760 (and 323-BA) October 2009
- 326 (and 326-BA) February 2011
- 331C, 331D, 331G, 331H February 2011
- 329 February 2011
- 320 (and 320-BA) July 2011

The following 300 Area waste sites are removed from RCC scope:

- Confirmatory sites 331 LSLT1 and 331 LSLT2
- Remediation sites 300-175, 300-4, 300-269, 325 WTF, UPR-300-10, UPR-300-12, and UPR-300-48

ERDF waste disposal costs associated with waste quantities from the deleted buildings and waste sites were eliminated.

The 100K Area D4, Interim Safe Storage (ISS) and FR activities (with the exception of sites already completed and the 118-K-1 Burial Ground) were removed from WCH scope in all mitigation plan scenarios per RL direction (Reference 9). Deletions included 106 D4 buildings, 2 reactor ISS, and 87 waste sites. Waste quantities associated with these reductions were also removed from the ERDF disposal costs.

## **7.2 D4 IMPACTS**

The majority of D4 impacts from the delayed release of identified facilities and insertion of additional scope into the baseline are mitigated by the deletion of 100K and 300 area scope and the ahead-of-schedule status of D4 activities. Additional mitigation was accomplished by assuming an early start of the Planning and Documentation phase of D4 activities for the 326 and 329 Buildings (ahead of the February 2011 release date) and by accelerating the release of several PNNL buildings as stated in the scenario assumptions. The resulting schedule significantly reduced the critical path impact from the 17-21 month delays in release of specified PNNL facilities. The 326 Building caused a critical path delay of six weeks, impacting the completion of the RCC contract as described in Section 7.5.

The below-grade demolition portion of several D4 facilities was removed from scope because of the proximity of the buildings to long-term retained facilities. The 326, 329, 328, and 328-A buildings will be demolished to grade level only.

## **7.3 FIELD REMEDIATION IMPACTS**

Field Remediation impacts from the 300 Area building retention include the long-term retention (removal from the RCC contract) of waste sites underlying or immediately adjacent to the retained facilities, and increased complexity and cost for waste sites in proximity to active utility systems that will remain to serve the retained facilities.

The following waste sites were retained (deleted):

- Confirmatory sites 331 LSLT1 and 331 LSLT2
- Remediation sites 300-175, 300-4, 300-269, 325 WTF, UPR-300-10, UPR-300-12, and UPR-300-48

The following waste sites were determined to have the potential for increased excavation complexity and cost due to their proximity to active utility systems as described in Appendix M:

- 300-5
- 300-15
- 300-95
- 300-121
- 300-214
- 300-255
- 300-257
- 300-264
- 300-265
- 300-RLWS
- 300-RRLWS
- 309-TW-1
- 309-TW-2
- 309-TW-3
- 316-3
- UPR-300-4

For these sites, the excavation duration and cost were increased by a factor of 25% to account for the added complexity.

#### **7.4 TPA IMPACTS**

- Tri-Party Agreement (TPA) milestone impacts from the mitigation plan were limited to those sites already identified for changes as discussed above for the 100 areas, and 300 area milestones directly affected by the retention of waste sites or buildings identified in milestones. The following 300 Area milestones are affected:

**M-016-00:** Complete Remedial Actions for all non-Tank Farms Operable Units by 9/30/2024.

**Impact:** Waste sites underlying the retained facilities or retained active utility systems will not be completed as part of the RCC scope. They will be deferred until the retained facilities are vacated (20+ years).

**M-016-00B:** Complete all interim 300 Area remedial actions including the 618-10 and 618-11 burial grounds by 9/30/2018.

**Impact:** Waste sites underlying the retained facilities or retained active utility systems will not be completed as part of the RCC scope. They will be deferred until the retained facilities are vacated (20+ years).



**M-016-69:** Complete all interim 300 Area remedial actions to include confirmatory sampling of all candidate sites listed in the 300-FF-2 ROD (except 618-10 and 618-11 burial grounds) by 9/30/2015.

**Impact:** Waste sites underlying the retained facilities or retained active utility systems will not be completed as part of the RCC scope. They will be deferred until the retained facilities are vacated (20+ years).

**M-016-74:** Complete interim remediation (to include excavation, loadout, closeout sampling, backfill and revegetation), for all 300 Area “inside the fence” waste sites north of Apple Street, except for the 300-RLWS, 300-15, 300-4, 300-268 and 300-123 waste sites remediation need only be completed through excavation and loadout by 9/30/2012.

**Impact:** Waste site 300-4 and portions of 300-RLWS and 300-15 are retained and should be removed from the milestone.

**M-094-00:** Complete disposition of 300 Area surplus facilities to be defined as the 220 facilities listed in the Hanford River Corridor Closure Contract Solicitation #DE-RP06-04RL14655 by 9/30/2015.

**Impact:** Milestone reference to 220 facilities and reference to #DE-RP06-04RL14655 are outdated. By updating the references the existing milestone for “surplus” facilities (excluding the retained facilities) can be met.

**M-094-06, -07, -08, 09:** Complete the selected removal and/or remedial actions that are selected for XX of the following 19 high priority facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 Trench and 3720. (Multiple dates)

**Impact:** Editorial impact, 325 building should be deleted and total number of facilities reduced. Each of the specific milestones can be met with no impact.

In addition to the listed impacts from the 300 Area Building Retention Scenario itself, there are several TPA impacts shown in the adjusted schedule. These are not caused by the 300 area mitigation activities but reflect conditions of waste sites and remediation status in the 100 and 300 areas. One waste site near the 300 area, 618-7, is currently behind schedule for starting excavation because it is a high risk activity and is being deferred until completion of the project's Integrated Safety Management System (ISMS) verification and readiness evaluations. The schedule shows completion of the site later than the TPA milestone. Several 100 area milestones are also under negotiation such as milestones for 100 B/C, 100 H, and IU-2 and IU-6. Again these milestone impacts are not related to the 300 area mitigation plan activities but the schedule reflects the current and planned status of the sites.

## **7.5 OVERALL SCHEDULE IMPACT**

Due to the mitigation activities described in Section 7.2, there was a significantly reduced impact to the RCC end date of August 29, 2013 in this mitigation scenario. The 326 building is on the critical path for 300 Area D4 activities in the IPB. Although this scenario introduces a 17-month delay in the 326 building release date, the scenario results in a mitigation of all but a six week extension in the completion date, from August 29, 2013 to October 15, 2013. Note that this does not reflect an adjustment to the target date for the RCC Contract for use in calculating the schedule acceleration performance fee which would be addressed in a separate Request for Equitable Adjustment.

## **7.6 COST IMPACT**

This scenario resulted in a net decrease to the total project cost of approximately \$206M as shown in the cost spreadsheet (Figure 7-1). Scope deletions from the 100K area totaled \$125M (\$110M including contingency and escalation and \$15M for ERDF disposal costs). Scope deletions from the 300 Area totaled \$90M (\$85.7M including contingency and escalation and \$4M for ERDF disposal costs). Scope additions included \$1.6M for added complexity of sixteen waste sites in the 300 Area, \$12.7M for the utility relocation project including escalation and contingency, and \$12.9M in time-related costs (hotel load) for the six week contract extension. The net change in scope was a reduction of \$188M. An additional \$18.3M of reductions in fee, pension and miscellaneous were deleted based on the scope reductions.

Figure 7-1. Cost Evaluation Spreadsheet for Scenario 3.

300 Area Building Retention Evaluation  
Mitigation Plan  
Scenario 3

Mitigation Plan - Scenario 3	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
IPB To Go Budget (March 2007)	208,436,404	210,228,022	216,207,101	270,822,643	341,291,045	399,780,675	173,984,584	-	-	2,036,733,216
Schedule and Contingency Adjustments to Balance Funding	(5,709,899)	(6,513,146)	(10,448,578)	(1,079,843)	9,730,937	(38,013,060)	(44,479,080)	167,841	-	(95,824,478)
Adjustments:										
Mission Support/General Support EAC	-	3,913,773	4,065,044	4,446,624	4,950,635	5,249,656	4,280,759	-	-	26,906,490
Burial Grounds and Non-Site Specific Support EAC	4,637,273	7,775,084	15,945,384	30,110,650	11,386,762	5,106,810	1,453,188	-	-	76,415,149
Waste Operations from Above	1,915,461	-	3,941,303	9,920,514	3,180,796	517,405	-	-	-	19,475,480
Scope Deletions:										
Remove K Area ISS, D4 and FR	(4,127,405)	(19,191,147)	(3,916,305)	(14,004,301)	(37,230,300)	(25,341,832)	(6,221,508)	-	-	(110,032,799)
Adjust ERDF for K Area ISS, D4 and FR Deletions	(48,457)	(2,703,663)	(756,514)	(589,828)	(3,740,130)	(7,176,310)	(174,237)	-	-	(15,189,039)
Remove PNNL Buildings/Ancillary Facilities/Waste Sites	(70,325)	(48,809)	(7,714)	(21,176,748)	(40,275,798)	(22,599,030)	(1,501,125)	-	-	(85,679,547)
Adjust ERDF for PNNL Buildings/Ancillary Facilities/Waste Sites Deletions	-	(126)	-	(24,754)	(346,528)	(2,976,494)	(1,026,896)	-	-	(4,374,798)
<b>Sub Total Deletes</b>	<b>(4,246,187)</b>	<b>(21,943,645)</b>	<b>(4,680,533)</b>	<b>(35,795,630)</b>	<b>(81,692,756)</b>	<b>(58,093,666)</b>	<b>(8,923,766)</b>	-	-	<b>(215,276,183)</b>
Scope Additions:										
FR Impact from Retained Utilities	-	-	3,993	106,298	965,153	539,195	-	-	-	1,614,639
Hotel Load for Schedule Extension	-	-	-	-	-	-	10,006,891	2,928,089	-	12,934,980
Utility Relocation Project	354,000	2,178,714	3,185,639	3,346,836	3,614,310	-	-	-	-	12,659,499
<b>SubTotal Additions</b>	<b>354,000</b>	<b>2,178,714</b>	<b>3,189,632</b>	<b>3,453,134</b>	<b>4,579,463</b>	<b>539,195</b>	<b>10,006,891</b>	<b>2,928,089</b>	-	<b>27,209,118</b>
<b>Delta Totals</b>	<b>(3,892,187)</b>	<b>(19,764,931)</b>	<b>(1,510,901)</b>	<b>(32,342,496)</b>	<b>(77,013,293)</b>	<b>(57,554,472)</b>	<b>1,083,125</b>	<b>2,928,089</b>	-	<b>(189,067,066)</b>
<b>TOTAL</b>	<b>\$205,387,262</b>	<b>\$196,636,803</b>	<b>\$228,199,353</b>	<b>\$281,678,092</b>	<b>\$293,626,882</b>	<b>\$315,087,013</b>	<b>\$136,322,673</b>	<b>\$3,096,730</b>	<b>\$0</b>	<b>\$1,876,638,792</b>
Fee (7%)	\$10,160,500	\$10,813,500	\$10,813,500	\$10,813,500	\$10,813,500	\$10,813,500	\$10,813,500	\$40,952,911	\$0	\$129,940,411
Pension (Escalated)	\$3,037,540	\$2,984,435	\$2,933,042	\$3,786,577	\$4,446,151	\$3,532,889	\$1,476,920	\$38,558	\$0	\$25,099,701
<b>Total Project</b>	<b>\$218,585,292</b>	<b>\$209,434,738</b>	<b>\$241,945,895</b>	<b>\$296,278,169</b>	<b>\$308,786,533</b>	<b>\$329,433,202</b>	<b>\$148,612,993</b>	<b>\$44,087,199</b>	<b>\$0</b>	<b>\$2,030,678,904</b>
Less Mission Support/General Support EAC	-	(3,913,773)	(4,065,044)	(4,446,624)	(4,950,635)	(5,249,656)	(4,280,759)	-	-	(26,906,490)
<b>Baseline Total Project (IPB Rev.D)</b>	<b>\$212,000,000</b>	<b>\$232,000,000</b>	<b>\$242,000,000</b>	<b>\$297,000,000</b>	<b>\$376,000,000</b>	<b>\$406,000,000</b>	<b>\$242,166,383</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,210,156,386</b>
<b>Total Project Delta</b>	<b>-\$6,585,292</b>	<b>\$26,479,036</b>	<b>\$4,119,149</b>	<b>\$5,168,465</b>	<b>\$72,164,102</b>	<b>\$81,816,454</b>	<b>\$97,824,149</b>	<b>-\$44,087,199</b>	<b>\$0</b>	<b>\$206,383,970</b>
<b>Funding (100%)</b>	<b>\$212,036,287</b>	<b>\$209,507,000</b>	<b>\$242,000,000</b>	<b>\$297,000,001</b>	<b>\$376,000,000</b>	<b>\$406,143,783</b>	<b>\$416,000,000</b>	<b>\$409,000,000</b>	<b>\$299,000,000</b>	<b>\$3,067,817,110</b>
<b>Delta to Funding</b>	<b>-\$8,550,005</b>	<b>\$72,262</b>	<b>\$54,105</b>	<b>\$721,833</b>	<b>\$66,834,659</b>	<b>\$76,199,677</b>	<b>\$250,076,629</b>	<b>\$365,207,360</b>	<b>\$299,000,000</b>	<b>\$1,019,232,674</b>

## 8.0 CONCLUSION/SUMMARY

This mitigation plan identifies a plan and approach for mitigating the impacts of the long-term retention of four laboratory complexes and multiple support facilities in the 300 Area to a minimal effect on the cost and schedule of the River Corridor Closure Contract. When integrated with the effect of removing 100K area facilities, reactors and waste sites from the RCC scope, a net reduction in the cost of the RCC of between \$205M and \$220M resulted for the three release scenarios evaluated.

The majority of the impacts are the same between Scenarios 1, 2, and 3 and will be discussed as a group. The specific differences between the scenario impacts are limited to the total cost and schedule impact and are described separately for each scenario. A detailed discussion of the impacts is provided in Sections 5, 6, and 7.

- Removal of the 300 Area facilities and waste sites from the WCH contract resulted in a direct reduction to the Baseline Target Cost of \$65 million (\$89 million including contingency and escalation.)
- Removal of the 100K Area facilities and waste sites from the WCH contract resulted in a direct reduction to the Baseline Target Cost of \$93 million (\$125 million including contingency and escalation).
- A conceptual design and cost estimate were prepared for utility relocations in support of the retained and delayed facilities. The total cost for the utility relocations was estimated at approximately \$12M including contingency (Appendix A). The escalated cost estimate is \$12.7M. The utility relocation costs were spread from FY 2008 through FY 2011 as described in Section 4 to optimize the construction schedule since no added funding was provided by RL in the mitigation planning.
- Tri-Party Agreement (TPA) milestone impacts from the mitigation plan were limited to those sites already identified for changes as discussed above for the 100 areas, and 300 area milestones directly affected by the retention of waste sites or buildings identified in milestones. The following 300 Area milestones are affected:

**M-016-00:** Complete Remedial Actions for all non-Tank Farms Operable Units by 9/30/2024.  
**Impact:** Waste sites underlying the retained facilities or retained active utility systems will not be completed as part of the RCC scope. They will be deferred until the retained facilities are vacated (20+ years).

**M-016-00B:** Complete all interim 300 Area remedial actions including the 618-10 and 618-11 burial grounds by 9/30/2018.  
**Impact:** Waste sites underlying the retained facilities or retained active utility systems will not be completed as part of the RCC scope. They will be deferred until the retained facilities are vacated (20+ years).

**M-016-69:** Complete all interim 300 Area remedial actions to include confirmatory sampling of all candidate sites listed in the 300-FF-2 ROD (except 618-10 and 618-11 burial grounds) by 9/30/2015.

## Conclusion/Summary

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**Impact:** Waste sites underlying the retained facilities or retained active utility systems will not be completed as part of the RCC scope. They will be deferred until the retained facilities are vacated (20+ years).

**M-016-74:** Complete interim remediation (to include excavation, loadout, closeout sampling, backfill and revegetation), for all 300 Area "inside the fence" waste sites north of Apple Street, except for the 300-RLWS, 300-15, 300-4, 300-268 and 300-123 waste sites remediation need only be completed through excavation and loadout by 9/30/2012.

**Impact:** Waste site 300-4 and portions of 300-RLWS and 300-15 are retained and should be removed from the milestone.

**M-094-00:** Complete disposition of 300 Area surplus facilities to be defined as the 220 facilities listed in the Hanford River Corridor Closure Contract Solicitation #DE-RP06-04RL14655 by 9/30/2015.

**Impact:** Milestone reference to 220 facilities and reference to #DE-RP06-04RL14655 are outdated. By updating the references the existing milestone for "surplus" facilities (excluding the retained facilities) can be met.

**M-094-06, -07, -08, 09:** Complete the selected removal and/or remedial actions that are selected for XX of the following 19 high priority facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 Trench and 3720. (Multiple dates)

**Impact:** Editorial impact, 325 building should be deleted and total number of facilities reduced. Each of the specific milestones can be met with no impact.

- For Scenario 1 (release of 326 and 326-BA in October 2009 and 3790 in February 2011) WCH was able to mitigate the impacts of the delayed release facilities and added scope to avoid a critical path impact to the end date of the RCC contract. This avoids a "hotel load" (time-related cost) impact to the scenario. Total impact of Scenario 1 resulted in a net Baseline Target Cost decrease of \$220 million (including contingency, escalation, fee, pension, and added utility scope) and no change to the RCC completion date of August 29, 2013.
- For Scenario 2 (326, 326-BA, and 3790 released February 2011) WCH was able to mitigate the impacts of the delayed release facilities and reduce the impact from the 17 months delayed release of Building 326 to a critical path impact of 6 weeks to the end date of the RCC contract. This minimized the "hotel load" (time-related cost) impact to the scenario. However, this mitigation plan does not reflect an equitable adjustment to performance fee to account for the favorable variance status (ahead of schedule and under budget) through 2007 that enabled the successful mitigation. Total impact of Scenario 2 resulted in a net Baseline Target Cost decrease of \$205 million (including contingency, escalation, fee, pension, utility scope, and hotel loads) and a change to the RCC completion date from August 29, 2013 to October 15, 2013.
- For Scenario 3 (326 and 326-BA released February 2011 and 3790 retained long-term) WCH was able to mitigate the impacts of the delayed release facilities and reduce the impact from the 17 months delayed release of Building 326 to a critical path impact of 6 weeks to the end date of the RCC contract. This minimized the "hotel load" (time-related cost) impact to the scenario. However, this mitigation plan does not reflect an equitable adjustment to performance fee to account for the favorable variance status (ahead of

## Conclusion/Summary

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schedule and under budget) through 2007 that enabled the successful mitigation. Total impact of Scenario 3 resulted in a net Baseline Target Cost decrease of \$206 million (including contingency, escalation, fee, pension, utility scope, and hotel loads) and a change to the RCC completion date from August 29, 2013 to October 15, 2013.

In summary, there appear to be minimal differences between the three scenarios evaluated. The two options for delayed release of the 326 Building (October 2009 or February 2011) result in a six week difference in the end date of the RCC contract, either August 29, 2013 (as in the current WCH contract) or October 15, 2013. The delay causes an increased time-related cost ("hotel load") of approximately \$12.9M. The options for either delayed release or long-term retention of Building 3790 result in essentially no difference in RCC schedule, and the cost difference is simply the deletion of approximately \$0.7M scope associated with the demolition of Building 3790.

All scenarios result in impacts to the long-term configuration of waste sites remaining in the 300 Area, since there are waste sites associated with the retained facilities and utility systems that will be inaccessible for the assumed 20-year duration of facility occupancy. TPA milestones associated with the retained 300 Area facilities and waste sites will require renegotiation to reflect the changed scope. In addition, any facilities or sites deleted from the current RCC contract for long-term retention will at some point require remediation at a presumably higher cost due to escalation.

WCH recommends proceeding with the definitive design and construction phase of the utility relocation project. Any of the three mitigation scenarios appear to be viable depending on the Government's needs regarding facilities 326 and 3790.



## 9.0 REFERENCES

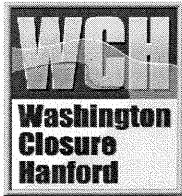
1. Letter 06-AMRC-0300, S. L. Sedgwick, RL, to P. L. Pettiette, WCH, "CONTRACT NO. DE-AC06-05RL14655 – BUILDING RETENTION EVALUATION," dated September 20, 2006.
2. Letter 130269, S. L. Feaster, WCH, to S. L. Sedgwick, RL, "CONTRACT NO. DE-AC06-05RL14655 – BUILDING RETENTION EVALUATION," dated October 17, 2006.
3. Letter 07-AMRC-0062, S. L. Sedgwick, RL to P. L. Pettiette, WCH, "CONTRACT NO. DE-AC06-05RL14655 – 300 AREA MITIGATION PLANNING," dated January 17, 2007.
4. Letter 07-AMRC-0107, J. Osso, RL, to C. G. Spencer, WCH, "CONTRACT NO. DE-AC06-05RL14655 – 300 AREA MITIGATION PLANNING," dated February 16, 2007.
5. Letter 07-AMRC-0141, S. L. Sedgwick, RL, to C. G. Spencer, WCH, "CONTRACT NO. DE-AC06-05RL14655 – 300 AREA MITIGATION PLANNING," dated April 19, 2007
6. Letter 133508, S. L. Feaster, WCH, to S. L. Sedgwick, RL, "CONTRACT NO. DE-AC06-05RL14655 – 300 AREA MITIGATION PLANNING," dated April 30, 2007.
7. Letter 07-FMD-0077, S. L. Sedgwick, RL, to C. G. Spencer, WCH, "CONTRACT NO. DE-AC06-05RL14655 – FISCAL YEAR (FY) 2007 FUNDING ESTIMATE AND FY 2008/2009 FUNDING GUIDANCE," dated May 11, 2007.
8. Letter 07-AMRC-0202, S. L. Sedgwick, RL, to C. G. Spencer, WCH, "CONTRACT NO. DE-AC06-05RL14655 – 300 AREA MITIGATION PLANNING," dated June 5, 2007.
9. Letter 07-AMRC-0216, S. L. Sedgwick, RL, to C. G. Spencer, WCH, "CONTRACT NO. DE-AC06-05RL14655 – 300 AREA MITIGATION PLANNING," dated June 8, 2007
10. Letter 07-AMRC-0218, R. L. Dawson, RL, to C. G. Spencer, WCH, "CONTRACT NO. DE-AC06-05RL14655 – 300 AREA PLANNING ASSUMPTIONS RELATED TO 300 AREA MITIGATION PLANNING," dated June 12, 2007.





**APPENDIX A**  
**300 AREA UTILITY RELOCATION PROJECT COST ESTIMATE**





# COST ESTIMATE REPORT

Cost Estimate 1004

## 300 Area Utility Relocation Project

Status:	Pre-Conceptual Design
Est Type:	ROM
Task Manager:	Don McBride
Estimating Manager:	Doug Ahmer
Project Estimator:	Bruce Wilcox
Project Estimator:	Dan Jakubek

bwwilcox

6/7/2007



## Cost Estimate Summary



<b>TITLE:</b>	300 AREA UTILITY RELOCATION PROJECT			<b>Estimate Number:</b>	1004
<b>AREA:</b>	300 Area	<b>Date Prepared:</b>	04/30/06	<b>Revision:</b>	Rev 0
<b>Estimate Requestor:</b>	D. McBride	<b>Date Revised:</b>	06/05/07	<b>WBS Number:</b>	1.04
<b>Prepared By:</b>	bwwilcox/djakubek/dwahmer	<b>Estimate Type:</b>	ROM		

**1.0 Purpose / Scope Description:**

Provide ROM estimates for new, relocated and reused systems needed to provide utility services (Water, Sewer, Electrical and Information Technology) to facilities planned for long term retention in the Hanford the 300 Area.

**2.0 Scope of Estimate**

The Washington Closure Hanford (WCH) River Corridor Closure (RCC) scope includes the deactivation, decommissioning, decontamination and demolition (D4) of 210 buildings located in the Hanford 300 Area, followed by field remediation of waste sites in the affected areas.

Thirteen facility complexes in this area are currently occupied by the Pacific Northwest National Laboratory (PNNL) and have a delayed release to WCH for D4. The RCC contract specifies a release date of October 1, 2009 for turnover of these facilities.

The Department of Energy, Richland Operations Office (RL) has informed WCH that the replacement laboratory facilities that will be used to relocate PNNL's activities will not be ready for occupancy by the 2009 release date and changes to the WCH contract will be necessary.

Several of the facilities will be retained by PNNL long-term (assumed > 20 years) and several support facilities will be retained by other Hanford contractors such as the Project Hanford Management Contractor (PHMC) or Johnson Controls, Inc. (JCI).

WCH and PNNL have jointly identified opportunities for the early release of several of the PNNL facilities that could reduce the impact of delays for the remaining facilities

Several scenarios have been specified by RL for evaluation in a mitigation plan. The scenarios vary in defining transfer dates for several of the facilities. In all scenarios, RL directed WCH to proceed with activities necessary to reroute utilities for the long-term retention facilities identified by RL to ensure their completion by September 2009.

Existing utility services or components will be used provided they do not require relocation or replacement due to planned remediation or demolition activities, and that they provide a reasonable expectation of service life compatible with the planned 20-year occupancy of several of the identified facilities.

The utility system requirements include Potable/Fire Protection Water; Wastewater (Sanitary, Process, Retention Process, and Stormwater); Electrical; Information Technology/Telecommunications; and other miscellaneous services such as natural gas, steam, and compressed air.

Attached are Rough Order of Magnitude (ROM) estimates including scope descriptions, bases and assumptions for the following utility systems: Potable/Fire Protection Water; Wastewater (Sanitary, Retention process, and Stormwater); Electrical; Information Technology/Telecommunications. Estimates for other miscellaneous services such as natural gas, steam, and compressed air are not include in this document.

Also included are costs for WCH Project Management for a duration of 18 months to provide coordination and oversight of all utility modifications.

**3.0 Basis and Assumptions:**

- Individual Scopes Of Work (SOW) are estimated to be performed by a Subcontractor. Costs for SubK OH&P are included in each estimate.
- All estimates assumes SOW does not include work with radioactive or hazardous materials. Assumes Personal Protection Equipment (PPE) beyond hard hat, steel toes & protective eye wear will not be required by OEM or Subcontractor personnel.
- Engineering and design basis is conceptual. 10% of total estimated direct cost is added for ROM engineering costs.
- In most cases, labor pricing based on FY07 Hanford Site Stabilization Agreement (HSSA) rates.
- Equipment priced using 80% of current Blue Book rates.
- Bulk material pricing and labor unit rates from RS Means Estimating Guide are used where applicable. Local and national vendor pricing is used for major equipment and sub-tier Subcontractors work,

**4.0 Exclusions:**

- Costs for Contractor management & oversight are included with each SOW. PM costs are based on an overall duration of 18 months to complete all 300 Area Utility Relocation work as performed by Subcontractors performing work for WCH. Costs for other Hanford Contractors for project support or oversight ARE NOT included in this estimate. Contingency percentages shown below are based on the conceptual nature of the design.
- Long term operating (lifecycle) costs ARE NOT included in the estimates.
- Costs are in current dollars. Costs for escalation of materials or services ARE NOT included in the estimates.

**5.0 Estimated Cost**

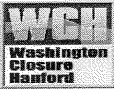
Total estimated cost (\$1,000s)	Estimated Cost	10% Design Engineering	Contingency %	Contingency \$\$\$	WCH Project Management	TEC
<b>Water Systems Modifications - 382 Replacement</b>	2,436	244	30%	804	384	<b>\$3,867</b>
<b>Water Systems Modifications - Distribution Sys Maintenance &amp; Repair</b>	846	85	30%	279	133	<b>\$1,343</b>
<b>Retention Process Sewer Modifications</b>	829	83	30%	274	131	<b>\$1,316</b>
<b>Sanitary &amp; Process Sewer Modifications</b>	1,024	102	30%	338	161	<b>\$1,625</b>
<b>Storm Sewer Modifications</b>	818	82	30%	270	129	<b>\$1,299</b>
<b>Electrical Systems Modifications</b>	871	87	30%	287	137	<b>\$1,383</b>
<b>Information Technology Modifications</b>	548	55	30%	181	86	<b>\$870</b>

**6.0 Estimate Review**

	Name (print)	Signature	Date
Estimator	B. Wilcox		6.7.07
Estimating Manager	D. Jakubek		6/7/07
Task Manager	D. Ahmer		6/7/07
Project Controls Lead	Don McBride		6/7/07

WASHINGTON CLOSURE HANFORD  
300 AREA UTILITIES - ROM R1 - Est 1004 - 300 Area Utility Relocation Project  
**Cost Estimate 1004**

## **Water Systems Modifications - 382 Replacement**



## Cost Estimate Summary



<b>TITLE:</b>	300 AREA UTILITY RELOCATION PROJECT WATER SYSTEMS MODIFICATIONS - 382 REPLACEMENT	<b>Estimate Number:</b>	1004 Water 1
<b>AREA:</b>	300 Area	<b>Revision:</b>	Rev 0
<b>Estimate Requestor:</b>	D. McBride	<b>Date Prepared:</b>	04/12/07
<b>Prepared By:</b>	bwwilcox	<b>Date Revised:</b>	06/04/07
		<b>WBS Number:</b>	1.04
		<b>Estimate Type:</b>	ROM

**1.0 Purpose / Scope Description:**  
Provide ROM estimate for modifications to the 300 Area water systems. Replacement of the 382 Complex tanks, pumps and related facilities.

**2.0 Scope of Estimate**

The existing water supply to the 300 Area consists of a 16" main from the City of Richland feeding a pressure boosting and water distribution facility identified as the 382 Complex that distributes water via looped underground piping systems throughout the 300 Area for potable (domestic) requirements as well as fire protection and process water uses. Modifications to the 300 Area water system are needed to accommodate the demolition of old 300 Area buildings, remediation of waste sites and to assure a reasonable expectation of service life to facilities that are planned for extended operation (> 20 years).

Because of the fire protection role, the system is required by DOE orders to have built in redundancy so that a single failure of the water supply, pumps, or mains will not prevent water from being supplied to the system for fire suppression. A looped system is required wherever practicable.

**382 Replacement:** Install a new pumping station on Cypress St. near Bldg 318 and abandon the 382 Complex of pump houses and storage tanks:

- \* Abandon 382 complex including tanks & fire pumping station (382-B) and replace with new skid mounted pumping facility.
- \* Install new skid mounted pumping station consisting of 4 new pumps including one diesel firewater pump. Equipment will be provided and installed by Original Equipment Manufacturer (OEM).
- \* Tie new skid into existing 16" water line from the City of Richland.
- \* Install a new second 16" water line from the city and tie into the new pump station providing redundancy.
- \* Install 2 Reduced Pressure Back Flow Preventers (BFP) installed in above-ground heated enclosures (Hot Box). One installed on new 16" water line and one on existing 16" water line.
- \* Install two new 12" water lines at Cypress St and from Wisconsin Ave to the existing Fire Station.
- \* Install new 12" test drain line along Cypress St to grassy swale.

- 3.0 Basis and Assumptions:**
1. Options are estimated to be performed by a Subcontractor. Costs for SubK OH&P are included in the estimate.
  2. Assumes scope does not include work with radioactive or hazardous materials. Assume Personal Protection Equipment (PPE) beyond hard hat, steel toes & protective eye wear will not be required by OEM or Subcontractor personnel.
  3. Engineering and design basis is conceptual. 10% of total estimated direct cost is added for ROM engineering costs.
  4. Labor pricing based on FY07 Hanford Site Stabilization Agreement (HSSA) rates.
  5. Equipment priced using 80% of current Blue Book rates.
  6. Bulk material pricing and labor unit rates from RS Means Estimating Guide are used where applicable. Local and national vendor pricing is used for major equipment and sub-tier Subcontractors work.
  7. Pipe for new 16" line will be ductile iron from connection point at the new Horn Rapids complex to Stevens Dr. From Stevens to new pump station, line will be 16" Blue Brute PVC pressure pipe.
  8. See individual estimate sheets for additional scope and assumptions.

- 4.0 Exclusions:**
1. Costs for Contractor management & oversight are included below as WCH Project Management. Costs are based on an overall duration of 18 months to complete all 300 Area Utility Relocation work as performed by Subcontractors performing work for WCH. Costs for other Hanford Contractors for project support or oversight ARE NOT included in this estimate. Contingency percentages shown below are based on the conceptual nature of the design.
  2. Long term operating (lifecycle) costs ARE NOT included in the estimates.
  3. Costs are in current dollars. Costs for escalation of materials or services ARE NOT included in the estimates.

**5.0 Estimated Cost**

<b>Total estimated cost (\$1,000s)</b>			
<b>WATER SYSTEMS MODIFICATIONS - 382 REPLACEMENT</b>		Direct Cost	2,436
		Design Engineering	10% 244
		Contingency	30% 804
		WCH Project Management	384
			<b>\$3,867</b>

**6.0 Estimate Review**

	Name (print)	Signature	Date
Estimator	Bruce Wilcox		6-7-07
Estimating Manager	Doug Ahmer		6/2/07
Task Manager	Don McBride		6-7-07
Project Controls Lead			

**Washington Closure Hanford**  
**300 AREA UTILITIES - ROM R1 - Est 1004 - 300 Area Utility Relocation Project**  
**02 - Direct Cost**

	Quantity	UOM	Manhours	Labor	Perm Materials	Equipment	Supplies	Subcontracts	Other	Total
1.0-UTILITY OPTIONS: W1 - WATER - 382 REPLACEMENT										
WWIMOB01 - * SubK Work Planning & Preparation	120.000	HR	630	36,429					6,303	42,732
WWIMOB02 - * On-Site Required Training & Badging	0.500	LS	186	9,460				4,942	2,492	16,894
WWIMOB03 - * Baseline Physical For Hanford Workers	1.000	LS	40	1,828					316	2,144
WWIMOB04 - * SubK Mob Equip, Tools, Materials	1.000	LS	100	3,651		1,290	1,618		1,135	7,693
WWIMOB05 - * Portable Toilets	8.000	MO						3,504	606	4,110
WWIMOB06 - * Two Way Radios	12.000	EA					5,415		937	6,352
WWIMOB07 - * SubK Field Office Facilities Setup	1.000	LS	120	5,232			11,754	9,150	4,522	30,659
WWIMOPS1 - * Monthly Operations & Overhead	8.000	MO	4,980	270,009			650	21,904	50,620	343,183
WWINEW01 - * New 16" Main - Asphalt Cutting & Removal	266.000	SY	20	726		410	496	360	345	2,337
WWINEW02 - * New 16" Main - Excavation & Sand Bedding	6,700.000	BCY	258	9,273	13,538	6,403	5,797	10,000	7,788	52,798
WWINEW03 - * New 16" Main - Blue Brute Pipe & Valve Installat	5,600.000	LF	2,328	95,864	227,933	8,825	17,751		60,622	410,994
WWINEW04 - * New 16" Main - Ductile Iron Pipe Installation	1,100.000	LF	1,100	46,083	116,554	6,688	9,950		31,019	210,293
WWINEW05 - * New 16" Main - Recuced Pressure BFP Installation	2.000	EA	330	13,575	79,893	2,111	3,211		17,093	115,884
WWINEW06 - * New 16" Main - Electrical Service to BFPs	2.000	EA	220	8,656	4,874	329	723		2,523	17,105
WWINEW07 - * New 16" Main - Backfill & Compaction	7,370.000	LCY	524	18,627	16,307	7,491	6,981		8,548	57,954
WWINEW08 - * New 16" Main - Pipeline Bridge at Heavy Haul Roa	1.000	EA	200	7,203	3,812	85	589		2,022	13,712
WWINEW09 - * New 16" Main - Road Repair	108.000	SY						905	156	1,061
WWINEW10 - * New 16" Main - Flush & Test New Line	1.000	LS	160	7,234		136	223		1,314	8,907
WWINEW11 - * 12" Cypress Main - Asphalt Cutting & Removal	1.000	LS	20	726		410	496	600	386	2,618
WWINEW12 - * 12" Cypress Main - Excavation & Sand Bedding	650.000	BCY	125	4,473	1,354	3,278	2,937	10,000	3,814	25,855
WWINEW13 - * 12" Cypress Main - Pipe & Valve Installation	650.000	LF	388	15,887	35,185	3,837	4,722		10,317	69,948
WWINEW14 - * 12" Cypress Main - Backfill & Compaction	715.000	LCY	113	3,978	1,745	717	672		1,231	8,344
WWINEW16 - * 12" Cypress Main - Road Repair	108.000	SY						838	145	982
WWINEW17 - * 12" Cypress Main - Flush & Test New Line	1.000	LS	80	3,617		68	112		657	4,453
WWINEW21 - * 12" Fire Station Main - Asphalt Cutting & Remova	1.000	LS	20	726		410	496	600	386	2,618
WWINEW22 - * 12" Fire Station Main - Excavation & Sand Beddi	650.000	BCY	125	4,473	1,354	3,278	2,937	10,000	3,814	25,855
WWINEW23 - * 12" Fire Station Main - Pipe & Valve Installatio	650.000	LF	388	15,887	30,574	3,837	4,722		9,520	64,539
WWINEW24 - * 12" Fire Station Main - Backfill & Compaction	715.000	LCY	113	3,978	1,745	717	672		1,231	8,344
WWINEW26 - * 12" Fire Station Main - Road Repair	0.010	LS						838	145	982
WWINEW27 - * 12" Fire Station Main - Flush & Test New Line	1.000	LS	80	3,617		68	112		657	4,453
WWINEW31 - * 12" Test Drain - Asphalt Cutting & Removal	1.000	LS	10	363		80	129	600	203	1,374
WWINEW32 - * 12" Test Drain - Excavation & Backfill.	650.000	BCY	30	1,028		165	182		238	1,613
WWINEW33 - * 12" Test Drain - Pipe & Valve Installation	390.000	LF	218	9,194	13,705	197	839		4,141	28,076
WWINEW36 - * 12" Test Drain - Road Repair	0.010	LS						168	29	196
WWIPMP01 - * New Pump Station - Excavation & Backfill	100.000	BCY	10	366		212	199	2,000	481	3,258
WWIPMP02 - * New Pump Station - Modular Bldg Foundation	30.000	CY	200	7,310	3,899	714	1,208		2,272	15,403
WWIPMP03 - * New Pump Station - Pump Station Installation	1.000	LS	240	9,740	434,283	1,779	2,057	10,000	79,220	537,077
WWIPMP04 - * New Pump Station - New Electrical Service	1.000	LS	220	9,528	30,866	320	834		7,189	48,737
WWIPMP05 - * New Pump Station - Chlorination System	1.000	LS	120	6,291	6,498		341		2,272	15,401
WWIPMP06 - * New Pump Station - Main Line Connections	1.000	LS	720	33,448	59,203	1,918	3,722		17,007	115,298
WWIPMP07 - * New Pump Station - Test Operating Systems	1.000	LS	480	24,075			1,304		4,391	29,770
WW1WND01 - * Flush & Test Entire System	1.000	LS	640	28,934		273	446		5,131	34,784
WW1WND02 - * Site Cleanup	60.000	HR	360	12,529		1,172	2,278		2,765	18,743
WW1WND03 - * SubK DeMob Equip, Tools, Materials	20.000	HR	100	3,651		1,290	1,618		1,135	7,693
WW1WND04 - * Close Out	1.000	LS	225	12,941					2,239	15,180
Subtotal,		W1 - WATER - 382 REPLACEMENT	16,218	750,608	1,083,319	58,509	98,192	86,407	359,373	2,436,408

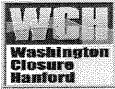
bwwilcox

6/7/2007



WASHINGTON CLOSURE HANFORD  
300 AREA UTILITIES - ROM R1 - Est 1004 - 300 Area Utility Relocation Project  
**Cost Estimate 1004**

## **Water Systems Modifications - Distribution Sys Maintenance & Repair**



## Cost Estimate Summary



<b>TITLE:</b>	300 AREA UTILITY RELOCATION PROJECT WATER SYSTEMS MODIFICATIONS - DISTRIBUTION MAINTENANCE & REPAIR	<b>Estimate Number:</b>	1004 Water 2
<b>AREA:</b>	300 Area	<b>Revision:</b>	Rev 0
<b>Estimate Requestor:</b>	D. McBride	<b>WBS Number:</b>	1.04
<b>Prepared By:</b>	bwwilcox	<b>Date Prepared:</b>	04/12/07
		<b>Date Revised:</b>	06/04/07
		<b>Estimate Type:</b>	ROM

**1.0 Purpose / Scope Description:**

Provide ROM estimate for Option 1 modifications to the 300 Area water systems. Cleaning and relining water distribution systems.

**2.0 Scope of Estimate**

The existing water supply to the 300 Area consists of a 16" main from the City of Richland feeding a pressure boosting and water distribution facility identified as the 382 Complex that distributes water via looped underground piping systems throughout the 300 Area for potable (domestic) requirements as well as fire protection and process water uses. Modifications to the 300 Area water system are needed to accommodate the demolition of old 300 Area buildings, remediation of waste sites and to assure a reasonable expectation of service life to facilities that are planned for extended operation (> 20 years).

Because of the fire protection role, the system is required by DOE orders to have built in redundancy so that a single failure of the water supply, pumps, or mains will not prevent water from being supplied to the system for fire suppression. A looped system is required wherever practicable.

**Distribution Maintenance & Repair:** Clean & reline ~3,500 lf and clean only ~1,240 lf of existing underground water distribution piping throughout the 300 Area. Scope includes:

- \* Clean & Re-line ~3,500 LF of existing 8" underground water lines. Install new valves as required.
  - \* Requires excavation to depth at major intersections of distribution systems piping to allow cleaning access at two ends of maximum 600-700 lf runs.
- \* Scrape and clean existing pipe lines using mechanical tools pulled through lines with cables. Flush line following cleaning.
- \* Refurbish pipe interiors using cement slurry lining pressure applied and trowled using mechanical tools pulled from one end of open line.
- \* Replace pipe spool removed for cleaning, install new valves as required, backfill & compact excavations, repair concrete or asphalt roadways.
- \* Pig clean only ~1,240 LF of existing 8" underground water lines from Wisconsin at Hemlock to 6" line near Fire Hydrant 80. Requires installation of launch and retrieval spools in existing lines.
  - \* Requires excavation to depth at major intersections of distribution systems piping to allow cleaning access at two ends of maximum 2,000-2,400 lf runs.
- \* Install permanent launch & retrieval ports near intersections. Assumes access excavations and backfill will be smaller than with Clean & Reline.
- \* Pig existing pipe lines using consecutively more aggressive honing tools pulled through lines with cables. Flush line following cleaning.

**3.0 Basis and Assumptions:**

1. Options are estimated to be performed by a Subcontractor. Costs for SubK OH&P are included in the estimate.
2. Assumes scope does not include work with radioactive or hazardous materials. Assume Personal Protection Equipment (PPE) beyond hard hat, steel toes & protective eye wear will not be required by OEM or Subcontractor personnel.
3. Engineering and design basis is conceptual. 10% of total estimated direct cost is added for ROM engineering costs.
4. Labor pricing based on FY07 Hanford Site Stabilization Agreement (HSSA) rates.
5. Equipment priced using 80% of current Blue Book rates.
6. Bulk material pricing and labor unit rates from RS Means Estimating Guide are used where applicable. Local and national vendor pricing is used for major equipment and sub-tier Subcontractors work.
7. See individual estimate sheets for additional scope and assumptions.

**4.0 Exclusions:**

1. Costs for Contractor management & oversight are included below as WCH Project Management. Costs are based on an overall duration of 18 months to complete all 300 Area Utility Relocation work as performed by Subcontractors performing work for WCH. Costs for other Hanford Contractors for project support or oversight ARE NOT included in this estimate. Contingency percentages shown below are based on the conceptual nature of the design.
2. Long term operating (lifecycle) costs ARE NOT included in the estimates.
3. Costs are in current dollars. Costs for escalation of materials or services ARE NOT included in the estimates.

**5.0 Estimated Cost**

<b>Total estimated cost (\$1,000s)</b>			
<b>WATER SYSTEMS MODIFICATIONS - DISTRIBUTION MAINTENANCE &amp; REPAIR</b>	Direct Cost		<b>846</b>
	Design Engineering	10%	<b>85</b>
	Contingency	30%	<b>279</b>
	WCH Project Management		<b>133</b>
			<b>\$1,343</b>

**6.0 Estimate Review**

	Name (print)	Signature	Date
Estimator	Bruce Wilcox		6/7-07
Estimating Manager	Doug Ahmer		6/7/07
Task Manager	Don McBride		6-7-07
Project Controls Lead			

**Washington Closure Hanford**  
**300 AREA UTILITIES - ROM R1 - Est 1004 - 300 Area Utility Relocation Project**  
**02 - Direct Cost**

	Quantity	UOM	Manhours	Labor	Perm Materials	Equipment	Supplies	Subcontracts	Other	Total
1.0-UTILITY OPTIONS: W2 - WATER - DISTRIB MAINT & REPAIR										
WW2MOB01 - * SubK Work Planning & Preparation	80.000	HR	420	24,286					4,202	28,488
WW2MOB04 - * SubK Mob Equip, Tools, Materials	1.000	LS	100	3,651		1,290	1,618		1,135	7,693
WW2MOB05 - * Portable Toilets	4.000	MO						1,752	303	2,055
WW2MOB06 - * Two Way Radios	6.000	EA					2,708		468	3,176
WW2MOB07 - * SubK Field Office Facilities Setup	1.000	LS	120	5,232			11,754	9,150	4,522	30,659
WW2MOPS1 - * Monthly Operations & Overhead	4.000	MO	2,490	135,004			650	10,952	25,366	171,972
WW2PIG01 - * Install Pig Launcher	1.000	EA	60	3,030	3,791	395	413	2,120	1,687	11,435
WW2PIG02 - * Construct End of Line Pig Retrieval	1.000	EA	48	2,591	1,083	190	165	2,000	1,043	7,071
WW2PIG03 - * Clean (Pig Only) 8" Water Line	1,240.000	LF	30	1,233	1,083		67		412	2,795
WW2PIG04 - * Backfill, Compaction & Road Repair	1.000	LS	30	1,047		707	632	838	558	3,781
WW2WLN01 - * Water Main Clean & Line - Excavation Scan	9.000	EA						18,000	3,114	21,114
WW2WLN02 - * Water Main Clean & Line - Asphalt Cutting & Remo	9.000	EA	180	6,531		3,691	4,466	5,400	3,476	23,563
WW2WLN03 - * Water Main Clean & Line - Site Excavation	9.000	EA	1,584	57,652	2,112	22,366	21,862		17,993	121,985
WW2WLN04 - * Water Main Clean & Line - Pipe Cleaning	3,480.000	LF	259	9,024		2,060	2,880	95,489	18,938	128,391
WW2WLN05 - * Water Main Clean & Line - Spool & Valve Replacem	9.000	EA	1,080	47,119	45,161	1,817	5,705		17,268	117,069
WW2WLN06 - * Water Main Clean & Line - Backfill & Compaction	9.000	EA	810	28,460	4,057	9,812	8,995		8,880	60,203
WW2WLN07 - * Water Main Clean & Line - Road Repair	9.000	EA						7,538	1,304	8,842
WW2WND01 - * Flush & Test Entire System	1.000	LS	640	28,934		273	446		5,131	34,784
WW2WND02 - * Site Cleanup	60.000	HR	360	12,529		1,172	2,278		2,765	18,743
WW2WND03 - * SubK DeMob Equip, Tools, Materials	20.000	HR	100	3,651		1,290	1,618		1,135	7,693
WW2WND04 - * Close Out	1.000	LS	225	12,941					2,239	15,180
WW3MOB02 - * On-Site Required Training & Badging	0.500	LS	186	9,460				4,942	2,492	16,894
WW3MOB03 - * Baseline Physical For Hanford Workers	1.000	LS	40	1,828					316	2,144
<b>Subtotal,</b>			<b>8,761</b>	<b>394,201</b>	<b>57,286</b>	<b>45,062</b>	<b>66,254</b>	<b>158,180</b>	<b>124,746</b>	<b>845,729</b>
<b>Report Totals:</b>			<b>66,057</b>	<b>3,794,689</b>	<b>1,918,110</b>	<b>268,913</b>	<b>365,374</b>	<b>1,094,402</b>	<b>1,089,835</b>	<b>8,531,324</b>

WASHINGTON CLOSURE HANFORD  
300 AREA UTILITIES - ROM R1 - Est 1004 - 300 Area Utility Relocation Project  
**Cost Estimate 1004**

## **Retention Process Sewer Modifications**



## Cost Estimate Summary



<b>TITLE:</b>	<b>300 AREA UTILITY RELOCATION PROJECT RETENTION PROCESS SEWER MODIFICATIONS</b>		<b>Estimate Number:</b>	1004 RPS
<b>AREA:</b>	300 Area		<b>Revision:</b>	Rev 0
<b>Estimate Requestor:</b>	D. McBride / John Huber		<b>WBS Number:</b>	1.04
<b>Prepared By:</b>	bwwilcox		<b>Estimate Type:</b>	ROM
	Date Prepared:	04/30/06		
	Date Revised:	06/04/07		

**1.0 Purpose / Scope Description:**

Provide ROM estimate for modifications to the 300 Area Retention Process Sewer systems.

**2.0 Scope of Estimate**

The current and future Retention Process Sewer (RPS) system flows at the 300 Area Bldgs 325, 326 and 329 will require rerouting to eliminate discharge into the sanitary sewer lines that currently run to the City of Richland. Proposed modifications include:

**ITEM 1.1:** Install two new discharge sump pumps into manhole RPS-3. Run new pressurized discharge line from manhole to new Load-Out facility. Includes:

- \* Core drill wall of existing manhole to accept new pressurized discharge line and power source conduit. Grouting openings on completion.
- \* Cut & cap 8" gravity discharge lines to sanitary sewer at exterior of manhole structure. Requires excavation to -13 below finished grade.
- \* Install new electrical service to the pumps. Assume power is available within 100 feet of the manhole.
- \* Excavate 50 ft long, 4 ft deep trench from manhole to new Load Out facility and install 1.5" pressurized PVC line.

**ITEM 1.2:** Construct new RPS Load-Out Facility at the current Bldg 328 site. Assumes Bldg 328 will be gone. Includes:

- \* Construct 30' x 30' x 8" thick concrete tank pad with 9" spill containment curb around perimeter. Slab will have 3' x 3' x 3' deep closed sump below grade to collect potential spills and rainwater.
- \* Construct 12' x 50' x 6" thick concrete truck pad with 6" spill containment curb around perimeter. Install gravity drain from truck pad to sump at tank pad.
- \* Construct 36' x 50' x 20' high open sided steel shelter over tank slab and truck pad to protect facility from collecting rainwater.
- \* Install 4 ea 1,000 gal tanks and associated piping, valves and controls on slab. Install submersible pump in 3 x 3 sump.
- \* Provide new electrical service to facility equipment. Assume power is available within 100 yards of the new structure.
- \* Install 6" drain from the new Load-Out facility to SS-38 sewer manhole.

**ITEM 1.3:** Modifications to various RPS sewer lines. Includes:

- \* Storm water isolation: Cut & cap 4" PVC RPS sewer line as it exits the East side of Bldg 329. Requires asphalt cutting & removal and excavation to -4 ft below finished grade.
- \* 329 PS to RPS Tie-In: Cut & cap 3" PS line to small collection tank. Reroute line and tie into existing 2" RPS line.
- \* 326 PS to RPS Tie-In: Cut concrete floor and install 20" x 20" x 36" deep sump below floor level. Cut, cap and reroute 8", 2" and 1.5" pipes to sump. Install 15 GPM sump pump including new power service. Install ~ 125 lf of new 1.5" CS line from pump to tie-in to existing 2" RPS line.

**3.0 Basis and Assumptions:**

1. Options are estimated to be performed by a Subcontractor. Costs for SubK OH&P are included in the estimate.
2. Assumes scope does not include work with radioactive or hazardous materials. Assume Personal Protection Equipment (PPE) beyond hard hat, steel toes & protective eye wear will not be required by OEM or Subcontractor personnel.
3. Engineering and design basis is conceptual. 10% of total estimated direct cost is added for ROM engineering costs.
4. Labor pricing based on FY07 Hanford Site Stabilization Agreement (HSSA) rates.
5. Equipment priced using 80% of current Blue Book rates.
6. Bulk material pricing and labor unit rates from RS Means Estimating Guide are used where applicable. Local and national vendor pricing is used for major equipment and sub-tier Subcontractors work,
7. See individual estimate sheets for additional scope and assumptions .

**4.0 Exclusions:**

1. Costs for Contractor management & oversight are included below as WCH Project Management. Costs are based on an overall duration of 18 months to complete all 300 Area Utility Relocation work as performed by Subcontractors performing work for WCH. Costs for other Hanford Contractors for project support or oversight ARE NOT included in this estimate. Contingency percentages shown below are based on the conceptual nature of the design.
2. Long term operating (lifecycle) costs ARE NOT included in the estimates.
3. Costs are in current dollars. Costs for escalation of materials or services ARE NOT included in the estimates.

**5.0 Estimated Cost**

<b>Total estimated cost (\$1,000s)</b>			
<b>RETENTION PROCESS SEWER MODIFICATIONS</b>	Direct Cost		<b>829</b>
	Design Engineering	10%	<b>83</b>
	Contingency	30%	<b>274</b>
	WCH Project Management		<b>131</b>
			<b>\$1,316</b>

**6.0 Estimate Review**

	Name (print)	Signature	Date
Estimator	Bruce Wilcox		6-7-07
Estimating Manager	Doug Ahmer		6/2/07
Task Manager	Don McBride		6/7/07
Project Controls Lead			

**Washington Closure Hanford**  
**300 AREA UTILITIES - ROM R1 - Est 1004 - 300 Area Utility Relocation Project**  
**02 - Direct Cost**

	Quantity	UOM	Manhours	Labor	Perm Materials	Equipment	Supplies	Subcontracts	Other	Total
1.0-UTILITY OPTIONS: S2 - RETENTION PROCESS SEWER										
WRPAMOB1 - SubK Work Planning & Preparation	1.000	LS	260	13,900					2,405	16,305
WRPAMOB2 - On-Site Required Training & Badging	0.500	LS	169	8,819				4,466	2,299	15,583
WRPAMOB3 - Baseline Physical For Hanford Workers	1.000	LS	40	1,802					312	2,114
WRPAMOB4 - SubK Mob Equip, Tools, Materials	20.000	HR	100	3,651		645	809		883	5,988
WRPAMOB5 - Portable Toilets	6.000	MO						2,628	455	3,083
WRPAMOB6 - Two Way Radios	12.000	EA					5,415		937	6,352
WRPAMOB7 - SubK Field Office Facilities & Supplies	20.000	HR	120	5,232			11,754	9,150	4,522	30,659
WRPAMOP1 - Monthly Operations & Overhead	6.000	MO	3,237	173,060			650	9,238	31,654	214,602
WRPSBSP1 - * RPS-3 - Excavation & Backfill at Manhole	1.000	LS	60	2,063	1,083	392	410	1,600	960	6,508
WRPSBSP2 - * RPS-3 - Install Sump Pump at Manhole	2.000	EA	20	1,151	2,664				660	4,475
WRPSBSP3 - * RPS-3 - install New Electrical Service for Sump	1.000	LS	90	3,670	3,791	165	326		1,376	9,327
WRPSBSP4 - * RPS-3 - Install 1.5" Pressureized Line to Load-O	1.000	LS	45	1,973	1,397				583	3,953
WRPSLOD1 - * LOADOUT - Excavation & Backfill at Load-Out & Tr	1.000	LS	120	4,125	1,000	724	758	1,000	1,316	8,924
WRPSLOD2 - * LOADOUT - Foundation & Sump for Loadout Facility	45.000	CY	300	10,965	5,848	1,072	1,812		3,408	23,105
WRPSLOD3 - * LOADOUT - Foundation & Drain at Truck Pad	15.000	CY	120	4,806	3,684	357	604		1,635	11,086
WRPSLOD4 - * LOADOUT - Construct 36 X 50 Weather Structure	1.000	LS						140,076	24,236	164,312
WRPSLOD5 - * LOADOUT - Install Loadout Equipment	1.000	LS	440	19,979	105,419	973	2,229		22,251	150,851
WRPSLOD6 - * LOADOUT - New Electrical Service for Loadout Fac	1.000	LS	220	9,528	30,866	320	834		7,189	48,737
WRPSLOD7 - * LOADOUT - 6" Gravity Drain Line	1.000	LS	100	3,871	2,372	392	410	1,200	1,427	9,672
WRPSLOD8 - * LOADOUT - Flush & Test System	1.000	LS	200	9,908			537		1,807	12,251
WRPSLOD9 - * LOADOUT - Asphalt Turn Around for Truck Access	200.000	SY	200	7,155	1,949	2,147	2,669	2,010	2,756	18,685
WRPSMOD1 - * Storm Water Isolation Bldg 329	1.000	LS	17	631		98	103	72	156	1,060
WRPSMOD2 - * Bldg 329 PS to RPS Tie-In	1.000	LS	40	2,301	2,530		115		856	5,802
WRPSMOD3 - * Bldg 326 PS to RPS Tie-In	1.000	LS	220	12,164	2,977	109	991		2,810	19,051
WRPSMOD4 - * Flush & Test Systems	1.000	LS	25	1,238			67		226	1,531
WRPSDMOB1 - * Site Cleanup	40.000	HR	240	8,352		781	1,518		1,843	12,495
WRPSDMOB2 - SubK DeMob Equip, Tools, Materials	20.000	HR	100	3,651		645	809		883	5,988
WRPSDMOB3 - Close Out	80.000	HR	260	13,900					2,405	16,305
Subtotal,		S2 - RETENTION PROCESS SEWER	6,743	327,895	165,580	8,820	32,821	171,440	122,250	828,805

WASHINGTON CLOSURE HANFORD  
300 AREA UTILITIES - ROM R1 - Est 1004 - 300 Area Utility Relocation Project  
**Cost Estimate 1004**

## **Sanitary & Process Sewer Modifications**



## Cost Estimate Summary



<b>TITLE:</b>	<b>300 AREA UTILITY RELOCATION PROJECT SANITARY &amp; PROCESS SEWER MODIFICATIONS</b>	<b>Estimate Number:</b>	1004 SS
<b>AREA:</b>	300 Area	<b>Revision:</b>	Rev 0
<b>Estimate Requestor:</b>	D. McBride / Tom Ambalam	<b>WBS Number:</b>	1.04
<b>Prepared By:</b>	bwwilcox	<b>Date Prepared:</b>	04/30/06
		<b>Date Revised:</b>	06/04/07
		<b>Estimate Type:</b>	ROM

**1.0 Purpose / Scope Description:**

Estimate modifications to Sanitary Sewer systems for the remaining facilities at the 300 Area.

**2.0 Scope of Estimate**

Existing Sanitary Sewer systems for the 300 Area retained facilities will remain connected and in some cases modified to allow discharge of the total flow to a trunk line connected to the City Of Richland (COR). Current gravity flows will be reversed requiring 4 new lift stations and new sewer lines in several locations.

**NEW LIFT STATIONS:** Install 4 new lift stations (manholes) at strategic locations to collect sanitary sewer flows and pump through force main lines to a connection point with the COR 8" sewer at the George Washington Way extension. Scope includes:

- \* Excavate and install new concrete manholes including weather proof hatch and internal access ladder.
- \* Install dual submersible pumps, valves, floats, pipe, guide rails, lift chain, etc in concrete manholes.
- \* Provide controls panel (including remote alarm and telemetry systems) and new electrical service for each lift station.
- \* Core drill manholes as required to accept electric conduits, upstream and downstream flow piping.
- \* Shoring at excavations as required for UG utility support and safety .

**NEW FORCE MAIN LINES:** Install 2" and 3" lines in shallow excavations between lift stations and existing manholes. Scope includes:

- \* New lines to be 2" or 3" PVC 100 PSI sectional or PE continuous piping. Check valves and gate valves as required.
- \* Includes hot tap into COR 8" force main line at GW Way Extension.

**NEW GRAVITY SEWER LINES:** Install 6" and 8" lines in deep excavations for gravity flows between lift stations and existing manholes. Scope includes:

- \* New lines to be 6" or 8" PVC sectional piping. No check valves or gate valves required.
- \* Includes asphalt cutting and repair following roadway or parking lot crossings.
- \* Shoring at excavations as required for UG utility support and safety .

**SLEEVED FORCE MAIN:** Install 2" PE force main line inside existing 8" gravity sewer line 450 LF between two existing manholes. Scope includes:

- \* Drain, "pig" and clean existing 8" line between manholes and install 2" 100 PSI PE line.
- \* Includes video record of 8" line interior following cleaning.
- \* Seal both ends of 8" at manholes to prevent backflow.

**3.0 Basis and Assumptions:**

1. Options are estimated to be performed by a Subcontractor. Costs for SubK OH&P are included in the estimate.
2. Assumes scope does not include work with radioactive or hazardous materials. Assume Personal Protection Equipment (PPE) beyond hard hat, steel toes & protective eye wear will not be required by OEM or Subcontractor personnel.
3. Engineering and design basis is conceptual. 10% of total estimated direct cost is added for ROM engineering costs.
4. Labor pricing based on FY07 Hanford Site Stabilization Agreement (HSSA) rates.
5. Equipment priced using 80% of current Blue Book rates.
6. Bulk material pricing and labor unit rates from RS Means Estimating Guide are used where applicable. Local and national vendor pricing is used for major equipment and sub-tier Subcontractors work,
7. Costs for Personal Protection Equipment (PPE) and monitoring by Rad Con Techs (RCT) are included as a precautionary measure for some areas where radionuclide may be encountered. However, remediation of impacted materials or soils is not included in this estimate and is not considered as part of this scope.
8. See individual estimate sheets for additional scope and assumptions .

**4.0 Exclusions:**

1. Costs for Contractor management & oversight are included below as WCH Project Management. Costs are based on an overall duration of 18 months to complete all 300 Area Utility Relocation work as performed by Subcontractors performing work for WCH. Costs for other Hanford Contractors for project support or oversight ARE NOT included in this estimate. Contingency percentages shown below are based on the conceptual nature of the design.
2. Long term operating (lifecycle) costs ARE NOT included in the estimates.
3. Costs are in current dollars. Costs for escalation of materials or services ARE NOT included in the estimates.

**5.0 Estimated Cost**

<b>Total estimated cost (\$1,000s)</b>			
<b>SANITARY &amp; PROCESS SEWER MODIFICATIONS</b>	Direct Cost		1,024
	Design Engineering	10%	102
	Contingency	30%	338
	WCH Project Management		161
			<b>\$1,625</b>

**6.0 Estimate Review**

	Name (print)	Signature	Date
Estimator	Bruce Wilcox		6-7-07
Estimating Manager	Doug Ahmer		6/2/07
Task Manager	Don McBride		6-5-07
Project Controls Lead			



**Washington Closure Hanford**  
**300 AREA UTILITIES - ROM R1 - Est 1004 - 300 Area Utility Relocation Project**  
**02 - Direct Cost**

	Quantity	UOM	Manhours	Labor	Perm Materials	Equipment	Supplies	Subcontracts	Other	Total
1.0-UTILITY OPTIONS: S4 - SANITARY & PROCESS SEWER										
W2SN1MOB1 - SubK Work Planning & Preparation	1.000	LS	260	13,900					2,405	16,305
W2SN1MOB2 - On-Site Required Training & Badging	0.500	LS	169	8,819				4,466	2,299	15,583
W2SN1MOB3 - Baseline Physical For Hanford Workers	1.000	LS	40	1,802					312	2,114
W2SN1MOB4 - SubK Mob Equip, Tools, Materials	20.000	HR	100	3,651		645	809		883	5,988
W2SN1MOB5 - Portable Toilets	6.000	MO						2,628	455	3,083
W2SN1MOB6 - Two Way Radios	12.000	EA					5,415		937	6,352
W2SN1MOB7 - SubK Field Office Facilities & Supplies	20.000	HR	120	5,232			11,754	9,150	4,522	30,659
W2SN1MOP1 - Monthly Operations & Overhead	6.000	MO	3,237	173,060			650	9,238	31,654	214,602
W2SNELC10 - * Electrical Service to LS10	1.000	LS	110	4,328	4,007	708	543		1,659	11,244
W2SNELC11 - * Electrical Service to LS11	1.000	LS	110	4,328	4,007	708	543		1,659	11,244
W2SNELC13 - * Electrical Service to LS13	1.000	LS	110	4,328	4,007	708	543		1,659	11,244
W2SNELC14 - * Electrical Service to LS14	1.000	LS	110	4,328	4,007	708	543		1,659	11,244
W2SNFM001 - * 2" Forec Main LS13 to LS14 - 240 LF	240.000	LF	344	14,410	3,368	2,746	9,605	4,008	5,906	40,042
W2SNFM002 - * 3" Forec Main LS14 to Wisconsin - 210 LF	210.000	LF	40	1,808	2,204		98		711	4,821
W2SNFM003 - * 3" Forec Main Spruce to Vale - 680 LF	680.000	LF	222	8,640	6,734	3,003	3,652	16,485	6,664	45,178
W2SNFM004 - * 3" Forec Main Inside 8" GS - 430 LF	430.000	LF	110	4,603	3,482	497	679	8,920	3,146	21,327
W2SNFM005 - * 3" Forec Main LS11 to GW Way - 2510 LF	2,510.000	LF	476	19,177	15,633	5,239	5,747	7,420	9,208	62,424
W2SNGS001 - * 6" Gravity Sewer to LS10 - 450 LF	450.000	LF	400	14,967	9,032	5,109	5,239	2,000	6,289	42,636
W2SNGS002 - * 6" Gravity Sewer Tie-in To LS10 - 70 LF	70.000	LF	165	6,152	2,419	1,890	1,924	1,000	2,316	15,702
W2SNGS003 - * 8" Gravity Sewer to LS11 - 120 LF	120.000	LF	180	6,675	3,940	2,228	2,257	1,000	2,786	18,886
W2SNGS004 - * 6" Gravity Sewer From Cypress to LS11 - 120 LF N	120.000	LF	180	6,675	3,459	2,228	2,257	1,000	2,702	18,322
W2SNGS006 - * 6" Gravity Sewer Tie-in to LS14 - 85 LF	85.000	LF	542	21,212	3,739	5,409	14,228	2,500	7,920	55,007
W2SNGS007 - * 6" Gravity Sewer to LS14 - 40 LF	40.000	LF	412	16,384	4,113	5,004	12,018	2,500	6,924	46,942
W2SNGS008 - * 6" Gravity Sewer to LS13 - 40 LF	40.000	LF	412	16,384	4,113	5,004	12,018	2,500	6,924	46,942
W2SNGS009 - * Divert 8" Gravity Sewer at Bldg 331	1.000	LS	135	4,949	2,111	2,227	2,107	1,000	2,144	14,537
W2SNLS101 - * LS-10 Manhole Installation, Excavation & Backfil	1.000	EA	155	5,478	4,343	3,158	2,976	1,000	2,934	19,889
W2SNLS102 - * LS-10 Lift Station Equip Installation	1.000	EA	80	3,617	18,785		196		3,910	26,507
W2SNLS111 - * LS-11 Manhole Installation, Excavation & Backfil	1.000	EA	155	5,478	4,760	3,158	2,976	1,000	3,006	20,378
W2SNLS112 - * LS-11 Lift Station Equip Installation	1.000	EA	80	3,617	20,084		196		4,135	28,032
W2SNLS131 - * LS-13 Manhole Installation, Excavation & Backfil	1.000	EA	155	5,478	4,343	3,158	2,976	1,000	2,934	19,889
W2SNLS132 - * LS-13 Lift Station Equip Installation	1.000	EA	80	3,617	18,785		196		3,910	26,507
W2SNLS141 - * LS-14 Manhole Installation, Excavation & Backfil	1.000	EA	350	13,871	7,843	4,717	14,257	1,000	7,213	48,902
W2SNLS142 - * LS-14 Lift Station Equip Installation	1.000	EA	80	3,617	18,785		196		3,910	26,507
W2SNXMOB01 - Site Cleanup	40.000	HR	240	8,352		781	1,518		1,843	12,495
W2SNXMOB02 - SubK DeMob Equip, Tools, Materials	20.000	HR	100	3,651		645	809		883	5,988
W2SNXMOB03 - Close Out	80.000	HR	260	13,900					2,405	16,305
Subtotal	S4 - SANITARY & PROCESS SEWER		9,719	436,486	178,103	59,677	118,925	79,815	150,822	1,023,826

WASHINGTON CLOSURE HANFORD  
300 AREA UTILITIES - ROM R1 - Est 1004 - 300 Area Utility Relocation Project  
**Cost Estimate 1004**

## **Storm Sewer Modifications**



## Cost Estimate Summary



<b>TITLE:</b>	300 AREA UTILITY RELOCATION PROJECT STORM SEWER MODIFICATIONS	<b>Estimate Number:</b>	1004 Storm
<b>AREA:</b>	300 Area	<b>Revision:</b>	Rev 0
<b>Estimate Requestor:</b>	D. McBride / John Huber	<b>WBS Number:</b>	1.04
<b>Prepared By:</b>	bwwilcox	<b>Date Prepared:</b>	04/30/06
		<b>Date Revised:</b>	06/04/07
		<b>Estimate Type:</b>	ROM

**1.0 Purpose / Scope Description:**

Estimate modifications to the Storm Water Sewer systems for the remaining facilities at the 300 Area.

**2.0 Scope of Estimate**

Existing Storm Water Sewer systems for the 300 Area retained facilities will require modifications to divert flows from Sanitary and Process Sewer lines. Mods to some buildings include re-routing flows from current drain lines to disposal at ground. Lift stations (including new electrical service connections) are required at several locations to move Storm Water to existing catch basins or to ground. Modifications per facility include:

**BLDG 318:** A (-14) EL below grade loading dock at 318 has a drain in the floor flowing storm water through a 2" pipe into the basement of the building. Install 2x2x2 sump and force drain line in the floor and an above grade sump pump to re-route storm water to ground at elevation. Scope includes:

- \* Cut and remove a 3x3 section of concrete floor, install external lift pump and associated piping to carry storm water from sump to ground at elevation.

**BLDG 329:** Storm water catch basins at the SE corner of 329 are connected to the Retention Process Sewer system. Cut existing lines and divert flow through new lift station to existing catch basin flowing to grassy swale. Scope includes:

- \* Cut & cap existing RPS line from catch. Install new lift station and 4" force main from lift station to catch basin connected to the grassy swale.

**BLDG 326:** Storm water catch basins at the East corner of 326 are connected to the Sanitary Sewer system. Cut existing lines and divert flow through a new lift station to lift station at Bldg 329. Scope includes:

- \* Cut & cap existing Sanitary Sewer line, Install new lift station, new 6" gravity feed line to new lift station and new 500 lf 4" force main from new lift station to lift station at Bldg 329.

**BLDG 3709A:** Re-route 4 ea roof drains from sanitary sewer connection to ground. Scope includes:

- \* Cut 4 ea. 6" CS internal roof drains near ceiling inside building 379A and re-route through 8" CMU wall to lower tier roof or to new downspouts to ground.

**BLDG 3790:** Isolate & cap 4 ea Catch Basins NE of building 3709 that currently flow to the Process Sewer system. Scope includes:

- \* Cap the flow to the process sewer by partially filling Catch Basin 1 with concrete.

**BLDG 331:** Divert Storm Water collections from roof drains to sanitary sewer and to ground. Scope includes:

- \* Re-route to internal roof storm drains to exterior down spouts.
- \* Install North Side underground gravity lines from 6 of the down spouts through new lift station to an existing catch basin.
- \* Re-route 6 Process Sewer lines at the North side of 331 from old Storm Sewer header to new Sanitary Sewer header then 500 ft gravity flow to existing Sanitary Sewer interconnection North of parking area. Includes flow from condensate lines at mechanical rooms
- \* Re-route Storm Water from Process Sewer 150 lf to new underground injection well (2' dia x 10' tall corrugated pipe filled with washed gravel).

**3.0 Basis and Assumptions:**

1. Options are estimated to be performed by a Subcontractor. Costs for SubK OH&P are included in the estimate.
2. Assumes scope does not include work with radioactive or hazardous materials. Assume Personal Protection Equipment (PPE) beyond hard hat, steel toes & protective eye wear will not be required by OEM or Subcontractor personnel.
3. Engineering and design basis is conceptual. 10% of total estimated direct cost is added for ROM engineering costs.
4. Labor pricing based on FY07 Hanford Site Stabilization Agreement (HSSA) rates.
5. Equipment priced using 80% of current Blue Book rates.
6. Bulk material pricing and labor unit rates from RS Means Estimating Guide are used where applicable. Local and national vendor pricing is used for major equipment and sub-tier Subcontractors work,
7. See individual estimate sheets for additional scope and assumptions .

**4.0 Exclusions:**

1. Costs for Contractor management & oversight are included below as WCH Project Management. Costs are based on an overall duration of 18 months to complete all 300 Area Utility Relocation work as performed by Subcontractors performing work for WCH. Costs for other Hanford Contractors for project support or oversight ARE NOT included in this estimate. Contingency percentages shown below are based on the conceptual nature of the design.
2. Long term operating (lifecycle) costs ARE NOT included in the estimates.
3. Costs are in current dollars. Costs for escalation of materials or services ARE NOT included in the estimates.

**5.0 Estimated Cost**

<b>Total estimated cost (\$1,000s)</b>			
<b>STORM SEWER MODIFICATIONS</b>	Direct Cost		<b>818</b>
	Design Engineering	10%	<b>82</b>
	Contingency	30%	<b>270</b>
	WCH Project Management		<b>129</b>
			<b>\$1,299</b>

**6.0 Estimate Review**

	Name (print)	Signature	Date
Estimator	Bruce Wilcox		6-7-07
Estimating Manager	Doug Ahmer		6/7/07
Task Manager	Don McBride		6-7-07
Project Controls Lead			

**Washington Closure Hanford**  
**300 AREA UTILITIES - ROM R1 - Est 1004 - 300 Area Utility Relocation Project**  
**02 - Direct Cost**

	Quantity	UOM	Manhours	Labor	Perm Materials	Equipment	Supplies	Subcontracts	Other	Total
1.0-UTILITY OPTIONS: S3 - STORMWATER										
WST1MOB001 - SubK Work Planning & Preparation	1.000	LS	260	13,900					2,405	16,305
WST1MOB002 - On-Site Required Training & Badging	0.500	LS	169	8,819				4,466	2,299	15,583
WST1MOB003 - Baseline Physical For Hanford Workers	1.000	LS	40	1,802					312	2,114
WST1MOB004 - SubK Mob Equip, Tools, Materials	20.000	HR	100	3,651		645	809		883	5,988
WST1MOB005 - Portable Toilets	6.000	MO						2,628	455	3,083
WST1MOB006 - Two Way Radios	12.000	EA					5,415		937	6,352
WST1MOB007 - * SubK Field Office Facilities & Supplies	20.000	HR	120	5,232			11,754	9,150	4,522	30,659
WST1MOP001 - * Monthly Operations & Overhead	6.000	MO	3,237	173,060			650	9,238	31,654	214,602
WST3180001 - * Bldg 318 Lift Station Sump Construction	1.000	EA	49	1,730	238	150	164	96	411	2,789
WST3180002 - * Bldg 318 Lift Station Equip Installation	1.000	EA	20	904	8,865		49		1,699	11,517
WST3180003 - * Bldg 318 Lift Station Elec Service	1.000	LS	30	1,326	2,978		72		757	5,134
WST3260001 - * Bldg 326 Lift Station Excavation & Backfill	1.000	EA	101	3,561	4,061	2,015	1,931	1,204	2,210	14,981
WST3260002 - * Bldg 326 Lift Station Equip Installation	1.000	EA	80	3,617	18,785		196		3,910	26,507
WST3260003 - * Bldg 326 Lift Station Elec Service	1.000	LS	110	4,328	4,007	708	543		1,659	11,244
WST3260005 - * Bldg 326 6" Gravity Sewer to New Lift Station	25.000	LF	93	3,325	1,819	1,573	1,528	1,468	1,681	11,394
WST3260006 - * Bldg 326 4" Force Main Lift Station to Catch Ba	500.000	LF	840	33,521	10,072	3,753	5,139	6,680	10,237	69,402
WST3290001 - * Bldg 329 Lift Station Excavation & Backfill	1.000	EA	101	3,561	4,061	2,015	1,931	1,204	2,210	14,981
WST3290002 - * Bldg 329 Lift Station Equip Installation	1.000	EA	80	3,617	18,785		196		3,910	26,507
WST3290003 - * Bldg 329 Lift Station Elec Service	1.000	LS	110	4,328	4,007	708	543		1,659	11,244
WST3290005 - * Bldg 329 6" Gravity Sewer to New Lift Station	100.000	LF	188	6,945	2,892	2,625	2,651	2,720	3,085	20,917
WST3290006 - * Bldg 329 4" Force Main Lift Station to Catch Ba	175.000	LF	342	13,463	6,484	2,229	2,754	3,052	4,841	32,822
WST3310001 - * Bldg 331 Cut Existing Roof Storm Drains	31.000	EA	419	15,620		2,911	1,819		3,521	23,871
WST3310002 - * Bldg 331 Install 6" PVC	1,680.000	ELF	836	33,704	26,415	4,219	3,343		11,710	79,391
WST3310003 - * Bldg 331 North Side Drain Line & Lift Station	1.000	LS	165	6,130	8,799	2,396	2,155	1,000	3,543	24,022
WST3310005 - * Bldg 331 Lift Station Equip Installation	1.000	EA	80	3,617	16,032		196		3,433	23,278
WST3310006 - * Bldg 331 Electrical Service to Lift Station	1.000	LS	64	2,784	3,087	109	187		1,067	7,233
WST3310007 - * Bldg 331 East Side UG Drain	135.000	FT	86	3,214	2,341	481	430	1,000	1,292	8,758
WST3310008 - * Bldg 331 Process Sewer Lines to New Sanitary Con	800.000	FT	378	14,597	13,288	1,112	1,255	3,668	5,869	39,790
WST3310009 - * Bldg 331 Storm Water to New UIC Well	150.000	FT	152	5,664	3,011	688	767	2,000	2,099	14,227
WST3709A01 - * Bldg 3709A Roof Drain Re-Route	4.000	EA	124	4,965	783	217	356		1,094	7,415
WST3790002 - * Bldg 3790 Isolate 4 Catch Basins	1.000	LS	8	263	347	10	23		111	754
WSTDMOB001 - Site Cleanup	40.000	HR	240	8,352		781	1,518		1,843	12,495
WSTDMOB002 - SubK DeMob Equip, Tools, Materials	20.000	HR	100	3,651		645	809		883	5,988
WSTDMOB003 - Close Out	80.000	HR	260	13,900					2,405	16,305
<b>Subtotal,</b>	<b>S3 - STORMWATER</b>		<b>8,982</b>	<b>407,150</b>	<b>161,157</b>	<b>29,988</b>	<b>49,182</b>	<b>49,572</b>	<b>120,605</b>	<b>817,654</b>

WASHINGTON CLOSURE HANFORD  
300 AREA UTILITIES - ROM R1 - Est 1004 - 300 Area Utility Relocation Project  
**Cost Estimate 1004**

## **Electrical Systems Modifications Retain 315 Substation**



## Cost Estimate Summary



<b>TITLE:</b>	300 AREA UTILITY RELOCATION PROJECT ELECTRICAL SYSTEMS MODIFICATIONS - RETAIN 351 SUBSTATION	<b>Estimate Number:</b>	1004 Elect
<b>AREA:</b>	300 Area	<b>Revision:</b>	Rev 0
<b>Estimate Requestor:</b>	Don McBride	<b>Date Prepared:</b>	04/18/07
<b>Prepared By:</b>	djakubek	<b>Date Revised:</b>	06/04/07
		<b>WBS Number:</b>	1.04
		<b>Estimate Type:</b>	Pre-Concept

**1.0 Purpose / Scope Description:**

Provide cost for incorporating modifications and/or upgrades to the 300 Area electrical systems. Retain 351 substation.

**2.0 Scope of Estimate**

Modify 300 Area electrical systems to accommodate the demolition of portions of 300 Area buildings and continuation of remediation of waste sites while retaining electrical feed to certain 300 Area facilities and equipment extending their operations service life (> 20 years). Therefore the existing electrical systems providing services to remaining 300 Area buildings and equipment require electrical feed alterations allowing decommissioning and continued PNNL operations to be performed simultaneously.

- Estimate includes: Subcontractor construction costs: Flour Hanford support and alterations of 300 Area electrical system alterations and Bonneville Power support and alterations of electrical feed systems. For design and written scope see WCH Design Engineering reference documents.
- Meets DOE orders requiring a two feed system (primary and secondary) identified as a looped system to continue feeding power to the retained 300 Area buildings and systems eliminating the possibility of a single feed failure.

**Retain 351 Substation**

- \* Perform Constructability Discussions & Permitting Process
- \* Provide Project Support for Duration
- \* Install North End Power Feed Circuits L6, L4, & L1
- \* Install Bio-Pump Feed Service
- \* Install 325 Secondary Feed Service
- \* Install West Side Secondary Feed Service
- \* Rework Existing Fire Protection System Feeding 351 Sub-Station
- \* Clean Up Area, Demobe, & Close-out Project

**3.0 Basis and Assumptions:**

1. Options are estimated to be performed by a Subcontractor, WCH, Flour Hanford, and Bonneville Power with associated cost adders.
2. Scope does not include work with radioactive or hazardous materials. Assume Personal Protection Equipment (PPE) beyond hard hat, steel toes & protective eye wear will not be required by OEM or Subcontractor personnel.
3. Engineering and design support used for developing the estimate were pre-conceptual capacity with less than 1% design complete.
4. Labor pricing based on FY07 Hanford Site Stabilization Agreement (HSSA) rates.
5. Equipment priced was taken from Blue Book rates.
6. Bulk material pricing, labor unit rates, equipment, and subcontractor pricing were estimated from discussions with WCH Engineers, Flour Hanford support personnel, other project support personnel, RS Means Estimating Guide, and Estimator's experience as applicable. Vendor pricing was used for a small portion of equipment and sub-tier Subcontractors costs.
7. See individual estimate sheets for scope details and further assumptions applied to Option segments.

**4.0 Exclusions:**

1. Costs for Contractor management & oversight are included below as WCH Project Management. Costs are based on an overall duration of 18 months to complete all 300 Area Utility Relocation work as performed by Subcontractors performing work for WCH. Costs for other Hanford Contractors for project support or oversight ARE NOT included in this estimate. Contingency percentages shown below are based on the pre-conceptual nature of the design.
2. Long term operating (lifecycle) costs ARE NOT included in the estimates.
3. Costs are in current dollars. Costs for escalation of materials or services ARE NOT included in the estimates.

**5.0 Estimated Cost**

<b>Total estimated cost (\$1,000s)</b>			
<b>ELECTRICAL SYSTEMS MODIFICATIONS - RETAIN 351 SUBSTATION</b>	Direct Cost		<b>871</b>
	Design Engineering	10%	<b>87</b>
	Contingency	30%	<b>287</b>
	WCH Project Management		<b>137</b>
			<b>\$1,383</b>

**6.0 Estimate Review**

	Name (print)	Signature	Date
Estimator	Dan Jakubek		6-7-07
Estimating Manager	Doug Ahmer		6/7/07
Task Manager	Don McBride		6-7-07
Project Controls Lead			

Washington Group International, Inc.

Project: Est 1004 - 300 Area Utility Relocation Pro  
Number: 300 AREA UTILITIES - ROM R1

Sheet No: JEOP1001, Page 1.00  
Printed: 6/7/2007 @ 6:22:05AM

Sheet No: JEOP1001

Notes

Operation:	Retain 351 Sub Station				
Quantity:	1.000	LS	Parameters	Durations	Calculated
Sheet Type:	Standard		Hours/Shift:	10.00 Hrs:	0.00
Estimator:	Dan Jakubek		Shifts/Day:	1.00 Sht:	0.00
CreateDate:	06/06/2007		Days/Week:	4.00 Days:	0.00
Revision:			Days/Mo:	Week:	0.00
Status:	Active		Critical:	No Months:	0.00

Modifications to the 300 Area electrical systems are needed to accommodate the demolition of certain 300 Area buildings and remediation of waste sites. At the same time certain 300 Area facilities and equipment are to remain in service for extended operation (> 20 years). Therefore the existing electrical systems providing services to those buildings and equipment require re-work to enable decommissioning and continued operation to be performed simultaneously.

This estimate retains 351 Sub Station . See Excel spread sheets for activities.

Estimate Codes

1.0 UTILITY OPTIONS	E1	ELECTRICAL	1.00
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Line -Type	Set/Group/Code/Description	Quantity	Manhours	Labor	Perm. Mat'ls	Equip.	Supplies	Sub-Contracts	Total Cost		
1.00 U.C.	300E/351SUB/CON 2.1 - Constructability & Permits	1.00	LS	240	16,771	1,050	0	0	17,821		
2.00 U.C.	300E/351SUB/MOB 2.2 - Subcontractor Mobilization	1.00	LS	401	27,885	2,000	3,585	3,000	36,470		
3.00 U.C.	300E/351SUB/PRO 2.3 - SubK Project Support	1.00	LS	1,210	67,040	2,500	55,315	683	125,538		
4.00 U.C.	300E/351SUB/NOR 2.4 - North Power Feed	1.00	LS	132	60,343	27,648	0	0	87,991		
5.00 U.C.	300E/351SUB/BIO 2.5 - Bio Pump Feed Service	1.00	LS	191	80,466	97,122	0	0	177,588		
6.00 U.C.	300E/351SUB/325 2.6 - 325 Feed Service	1.00	LS	205	85,209	102,846	0	0	188,055		
7.00 U.C.	300E/351SUB/WES 2.7 - Install West Side 2ndary Feed	1.00	LS	104	48,825	18,102	0	0	66,927		
8.00 U.C.	300E/351SUB/REW 2.8 - Fire Sys - Deleted Cost Due to Part of OPS Scope	0.00	LS	0	0	0	0	0	0		
9.00 U.C.	300E/351SUB/DEM 2.9 - SubK Demobilization & Clean-up	1.00	LS	240	12,181	500	2,835	0	15,516		
10.00	Grand S/T			2,723	398,720	251,768	61,735	3,683	715,906		
11.00	Add-On ADD/TAX/SALES2 State Sales & Use Tax @ 8.3%			0	0	20,897	5,124	306	26,326		
12.00	Grand S/T (Primar)			2,723	398,720	272,665	66,859	3,989	742,232		
13.00	Add-On ADD/SUBCON/SUBOH&P Subcontractor Overhead & Profit			0	0	0	0	0	111,335		
14.00	Add-On ADD/SUBCON/SUBBOND Subcontractor Bond			0	0	0	0	0	12,989		
15.00	Grand S/T			2,723	398,720	272,665	66,859	3,989	866,556		
16.00	Add-On ADD/SUBCON/SUBB&O Subcontractor B&O Tax			0	0	0	0	0	4,099		
17.00	Grand S/T			2,723	398,720	272,665	66,859	3,989	128,423		
Totals for Sheet No. JEOP1001		1.000	LS	2,723	398,720	272,665	66,859	0	3,989	128,423	870,655

WASHINGTON CLOSURE HANFORD  
300 AREA UTILITIES - ROM R1 - Est 1004 - 300 Area Utility Relocation Project  
**Cost Estimate 1004**

## **Information Technology Modifications**





## Cost Estimate Summary



<b>TITLE:</b>	<b>300 AREA UTILITY RELOCATION PROJECT INFORMATION TECHNOLOGY MODIFICATIONS</b>		<b>Estimate Number:</b>	1004 IT	
<b>AREA:</b>	300 Area		<b>Revision:</b>	Rev 0	
<b>Estimate Requestor:</b>	D. McBride	<b>Date Prepared:</b>	04/30/06	<b>WBS Number:</b>	1.04
<b>Prepared By:</b>	dwahmer	<b>Date Revised:</b>	06/04/07	<b>Estimate Type:</b>	ROM

**1.0 Purpose / Scope Description:**  
Provide ROM estimate for modifications to the 300 Area Information Technology systems.

**2.0 Scope of Estimate**

The majority of the existing IT and telecommunications cabling that supports PNNL activities in the 300 Area is served out of Building 3506C (a.k.a. "Bundy Hut") and/or through the fiber optic and copper cables that are routed along New Mexico Avenue in the vicinity of Building 309. The associated infrastructure and cable routes are expected to be impacted by the D4 and Field Remediation activities in and around 309 and underlying waste sites and will require rerouting. The waste sites are scheduled for remediation starting in 2009. Proposed modifications include:

**ITEM L1 - Long Term PNNL/PHMC Facilities:** Install new optical fiber for PNNL facilities, except 622R. Use existing cabling for PHMC facilities with exception of fiber route to 3790. – Per functional requirements. The cable to 622R will need to be re-routed to ISB2.

- \* Allows for new infrastructure that can be installed away from D4 locations.
- \* Lowest risk installation, does not interfere with existing operational infrastructure.
- \* Supports retained facilities planned life of 20 years or more, i.e., meets lifecycle requirements.
- \* Presents best overall value to the DOE – investing in new infrastructure rather than reworking old infrastructure in support of PNNL's science mission in the 300 area.

**ITEM I1- Interim/Short Term PNNL/PHMC Facilities:** Install new optical fiber for PNNL facilities: 318 to 320; 325 to 326; 325 to 329. Install new optical fiber cabling for PHMC facility 339A to 3790.

- \* Allows for new infrastructure that can be installed away from D4 locations.
- \* Lowest risk installation, does not interfere with existing operational infrastructure. Work can be completed during business hours.
- \* Schedule flexibility - work can be completed anytime - this FY through FY09.

**ITEM M2 - Modular Offices:** Reuse existing optical fiber cabling that runs from 350 to 2 of the trailers. Wireless links for the remaining trailers that require connectivity.

- \* Consistent with the Site services architecture for PNNL to service it's supporting organizations.

**3.0 Basis and Assumptions:**

- Options are estimated to be performed by a Subcontractor. Costs for SubK OH&P are included in the estimate.
- Assumes scope does not include work with radioactive or hazardous materials. Assume Personal Protection Equipment (PPE) beyond hard hat, steel toes & protective eye wear will not be required by OEM or Subcontractor personnel.
- Engineering and design basis is conceptual. 10% of total estimated direct cost is added for ROM engineering costs.

**4.0 Exclusions:**

- Costs for Contractor management & oversight are included below as WCH Project Management. Costs are based on an overall duration of 18 months to complete all 300 Area Utility Relocation work as performed by Subcontractors performing work for WCH. Costs for other Hanford Contractors for project support or oversight ARE NOT included in this estimate. Contingency percentages shown below are based on the conceptual nature of the design.
- Long term operating (lifecycle) costs ARE NOT included in the estimates.
- Costs are in current dollars. Costs for escalation of materials or services ARE NOT included in the estimates.

**5.0 Estimated Cost**

Total estimated cost (\$1,000s)

<b>INFORMATION TECHNOLOGY MODIFICATIONS</b>	Direct Cost		<b>548</b>
	Design Engineering	10%	<b>55</b>
	Contingency	30%	<b>181</b>
	WCH Project Management		<b>86</b>
			<b>\$870</b>

**6.0 Estimate Review**

	Name (print)	Signature	Date
Estimator	Doug Ahmer		6-7-07
Estimating Manager	Doug Ahmer		6/7/07
Task Manager	Don McBride		6-7-07
Project Controls Lead			

Washington Group International, Inc.

Project: Est 1004 - 300 Area Utility Relocation Pro

Number: 300 AREA UTILITIES - ROM R1

Sheet No: AIT000001, Page 1.00

Printed: 6/7/2007 @ 6:17:30AM

Sheet No: AIT000001

Operation:	Information Technology				
Quantity:	1.000	LS	<u>Parameters</u>	<u>Durations</u>	<u>Calculated</u>
Sheet Type:	Standard		Hours/Shift:	10.00 Hrs:	0.00
Estimator:	Dan Jakubek		Shifts/Day:	1.00 Shft:	0.00
CreateDate:	06/06/2007		Days/Week:	4.00 Days:	0.00
Revision:			Days/Mo:	Week:	0.00
Status:	Active		Critical:	No Months:	0.00

Notes

Based on functional requirements, the following options were chosen by the 300 AREA UTILITY RELOCATION PROJECT - IT OPTIONS STUDY TEAM to provide service to the 300 Area retained facilities.

Opt L1: Install new optical fiber cabling as the recommended long term option for retained facilities 318, 325, 331 & 350. Includes fiber re-route for 622R.

Opt I1: Install new optical fiber cabling as the recommended interim option for retained facilities 320, 326 & 329. Install new optical fiber cabling between buildings 339A & 3790.

Opt M2: Re-use existing optical fiber cabling from 350 to trailers. Deploy wireless network to provide interconnections between trailers.

<b>Estimate Codes</b>				
1.0	UTILITY OPTIONS	I1	INFORMATION TECHNOLOGY	1.00

Line -Type	Set/Group/Code/Description	Quantity	Manhours	Labor	Perm. Mat'ls	Equip.	Supplies	Sub-Contracts	Total Cost
1.00	U.C. 300I/300IT/L1 L L1 - Long Term PNNL/PHMC Facility Option	1.00	LS	0	0	0	0	350,000	0 350,000
2.00	U.C. 300I/300IT/I1 I I1 - Interim/Short Term PNNL/PHMC Facility Option	1.00	LS	0	0	0	0	145,000	0 145,000
3.00	U.C. 300I/300IT/M2 M M2 - Modular Office Option	1.00	LS	0	0	0	0	50,000	0 50,000
4.00	Grand S/T (Primar			0	0	0	0	545,000	0 545,000
5.00	Add-On ADD/SUBCON/SUBB&O Subcontractor B&O Tax			0	0	0	0	0	2,578 2,578
6.00	Grand S/T			0	0	0	0	545,000	2,578 547,578
Totals for Sheet No. AIT000001		1.000	LS	0	0	0	0	545,000	2,578 547,578

WASHINGTON CLOSURE HANFORD  
300 AREA UTILITIES - ROM R1 - Est 1004 - 300 Area Utility Relocation Project  
**Cost Estimate 1004**

## **WCH Project Management**

Washington Group International, Inc.

Project: Est 1004 - 300 Area Utility Relocation Pro

Number: 300 AREA UTILITIES - ROM R1

Sheet No: WWCHPM01, Page 1.00

Printed: 6/7/2007 @ 6:19:01AM

Sheet No: WWCHPM01

Notes

Operation:	WCH PROJ MGMT - 300 AREA UTILITY RELOCATION				
Quantity:	18.000	MO	Parameters	Durations	Calculated
Sheet Type:	Standard		Hours/Shift:	10.00 Hrs:	0.00
Estimator:	Wilcox, Bruce		Shifts/Day:	1.00 Sft:	0.00
CreateDate:	06/06/2007		Days/Week:	4.00 Days:	0.00
Revision:			Days/Mo:	Week:	0.00
Status:	Active		Critical:	No Months:	0.00

WCH Key personnel support for 300 Area Utility Relocation project.  
Costs are based on 18 month duration for Water, Retention Process Sewer, Sanitary Sewer, Storm Sewer, Information Technology and Electrical projects.  
Costs to be pro-rated based on individual project costs.

Estimate Codes

1.0 UTILITY OPTIONS	A1	WCH PROJ MANAGEMENT	18.00
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Line -Type	Set/Group/Code/Description	Quantity	Manhours	Labor	Perm. Mat'ls	Equip.	Supplies	Sub-Contracts	Total Cost	
1.00 Note	**WCH PROJECT MANAGEMENT & SUPPORT**									
2.00 Crew	LH07/NONMAN/51700 Project Management	1.00	Ea	1.00	115.79	0.00	0.00	0.00	115.79	
3.00 Crew	LH07/NONMAN/58700 Safety & Health - Management	0.25	Ea	0.25	27.20	0.00	0.00	0.00	27.20	
4.00 Crew	LH07/NONMAN/58731 Safety & Health - Industrial Hygiene	0.25	Ea	0.25	16.00	0.00	0.00	0.00	16.00	
5.00 Crew	LH07/NONMAN/21700 Planning and Controls	0.50	Ea	0.50	31.13	0.00	0.00	0.00	31.13	
6.00 Crew	LH07/NONMAN/32711 Project Engineer	0.25	Ea	0.25	26.13	0.00	0.00	0.00	26.13	
7.00 Crew	LH07/NONMAN/58723 Safety & Health - RadCon H.P./Support Serv	0.25	Ea	0.25	17.03	0.00	0.00	0.00	17.03	
8.00 Crew	LH07/NONMAN/53740 Field Support - Subcontract STR	1.00	Ea	1.00	59.16	0.00	0.00	0.00	59.16	
9.00 Crew	LH07/NONMAN/53700 Field Support - Management	1.00	Ea	1.00	90.50	0.00	0.00	0.00	90.50	
10.00 Crew	LH07/NONMAN/41700 Procurement	0.25	Ea	0.25	14.28	0.00	0.00	0.00	14.28	
11.00 Crew S/T	Begins on 2.00 creW Subtotal	2,718.00	Hrs	4.75	397.22	0.00	0.00	0.00	397.22	
	Production Rates:									
		0.0066	MO / Crew Hour	12,911	1,079,630	0	0	0	1,079,630	
		0.0014	MO / Manhour							
		151.0000	Crew Hours / MO <--							
		717.2500	Manhours / MO							
12.00 Grand S/T	Grand Subtotal			12,911	1,079,630	0	0	0	1,079,630	
13.00 Add-On	ADD/TAX/SALES State Sales & Use Tax @ 8.3%			0	0	0	0	0	0	
14.00 Grand S/T (Primar)	Grand Subtotal			12,911	1,079,630	0	0	0	1,079,630	
15.00 Add-On	ADD/SUBCON/WCHFEE WCH FEE @ 7%			0	0	0	0	0	75,574	
16.00 Grand S/T	Grand Subtotal			12,911	1,079,630	0	0	0	1,155,204	
17.00 Add-On	ADD/SUBCON/SUBB&O Subcontractor B&O Tax			0	0	0	0	0	5,464	
18.00 Grand S/T	Grand Subtotal			12,911	1,079,630	0	0	0	1,160,669	
Totals for Sheet No. WWCHPM01		18.000	MO	12,911	1,079,630	0	0	0	81,038	1,160,669

Wilcox 6/5/2007  
**UTILITY RELOCATION PROJECT - WCH Project Management Costs**

	<i>TEC</i>	<i>% of ST</i>	<i>% of PM</i>
RPS	828,805	11%	130,513
SAN	1,023,826	14%	161,224
STORM	817,654	11%	128,757
WATER 1	2,436,408	33%	383,665
WATER 2	845,729	11%	133,178
ELEC	870,655	12%	137,103
IT	547,578	7%	86,228
<b>ST</b>	<b>7,370,655</b>	<b>100%</b>	<b>1,160,669</b>
PM	1,160,669		
<b>GT</b>	<b>8,531,324</b>		

Methodology for spreading Project Management costs across Utility Relo Projects

**APPENDIX B**

**300 AREA ELECTRICAL UTILITY RELOCATION PROPOSALS  
AND COST ESTIMATES**





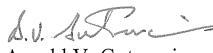
**Interoffice Memorandum**

133842

TO: Steve E. Dieterle, L1-04  
Don J. McBride, H4-15

DATE: May 22, 2007

COPIES: See Below

FROM:   
Arnold V. Gutmanis  
Chair Person, Electrical Discipline  
Team for 300 Area Utility Relocation  
Project  
L1-01/ 376-9108

SUBJECT: **300 AREA ELECTRICAL UTILITY RELOCATION PROPOSALS AND COST ESTIMATES**

REF: Functional Requirements and Design Criteria for the 300 Area Utility Relocation Project, 0300X-DC-G0001, dated April 17, 2007.

Submitted for management review is the Electrical Discipline Team option proposals and pre-conceptual cost estimates to provide reliable electrical service to the retained facilities in the 300 Area. Considerations by Management, the regulators, and U.S. Department of Energy (DOE) may influence the final option chosen for implementation. This letter requests Washington Closure Hanford (WCH) management recommend one of the five proposed options presented for design preparation and implementation.

The 300 area electrical discipline team consisted of WCH, PNNL, FH, DOE-RL and other organizations staff members as needed to evaluate and determine options for the 300 Area electric utility relocation. The proposals set forth are broken down by the following options and cost analysis. The proposals are based on scenarios to reroute utilities for the long-term retention facilities identified by DOE-RL and functional requirements and design criteria in the above referenced document.

- Option 1** Utilize the existing 351 Substation and distribution networks with modifications only to support demolition activities.
- Option 2** Relocate the 351 substation to the west side of Stevens Drive and utilize the existing distribution networks with modifications only to support demolition activities.
- Option 3** Use the City of Richland to provide one (1) new feeder and install one new substation with autotransformer to change the City of Richland's utility voltage from 12.5 kV to match the 300 area's existing 13.8 kV utility voltage, and convert the 400 Area "maintenance line" into a feeder as the other electrical service provider to the 300 area.
- Option 4** Use the City of Richland to provide two (2) new feeders as the electrical service provider to the 300 area and install two new substations with autotransformers to change the City of Richland's utility voltage from 12.5 kV to match the 300 area's existing 13.8 kV utility voltage.



Page 2

**Option 5** Use the City of Richland to provide two (2) new feeders as the electrical service provider to the 300 Area and change the existing 300 Area's 13.8 kV utility voltage to match the City of Richland's utility voltage 12.5 kV. Each retained building's transformers will required to be changed.

The Electrical Discipline Team is willing to convene at your earliest convience to discuss these proposals.

AVG:la

Attachments:

- Option Study for 300 Area Utility Relocation Project, Case 1, 2, 3, 4, and 5
- Cost Estimate Summary
- Detailed Cost Estimate Summary

Copies:

D. W. Ahmer, H4-15  
 S. M. Baker, S4-15  
 C. E. Carlson, S4-12  
 S. E. Dieterle, L1-04  
 G. A. Edwards, E6-27  
 R. G. Egge, X5-50  
 A. V Gutmanis, L1-01  
 D. J. Jakubek, H4-15  
 R. N. Krekel, A3-04  
 D. A. Larson, J2-09  
 T. H. Leone, L1-04  
 J. B. Logan, P7-28  
 G. M. MacFarlan, L6-06  
 D. J. McBride, H4-15  
 A. L. Minton, J2-09  
 M. E. Olson, J2-09  
 S. K. Sanan, P7-08  
 D. J. Tollefson, E6-29  
 J. N. Winters, H4-20  
 Document Control, H4-11

**Concurrence**

5-22-07	5-22-07	5-22-07	5-22-07
RGE <i>ME</i>	DWA <i>DWA</i>	MEON <i>MEON</i>	CEC <i>CEC</i>

*For Doug Ahmer  
 Ram Jakubek*

**Option Study for 300 Area Utility Relocation Project  
Case 1, 2, 3, 4 and 5  
Electrical Service for 300 Area**

**1.0 Introduction and Background**

The Department of Energy, Richland Operations Office (RL) has notified Washington Closure Hanford (WCH) of upcoming changes to the buildings previously planned for demolition as part of the River Corridor Closure Contract (RCCC). Several facilities occupied by the Pacific Northwest National Laboratory (PNNL) as well as utility and service facilities associated with both PNNL and other Hanford site missions will be retained. The utilities, which are currently serving the 300 Area facilities, will be modified to support these facilities and to allow the clean-up effort by WCH to continue. The PNNL buildings to be retained long-term include the 318, 325, 331 and 350 Building complexes. Other facilities will remain on an interim basis and may require utility modifications. Thus the 300 Area electrical distribution systems will require modifications and upgrades to continue to provide reliable electrical power for the retained facilities in the 300 Area. The 351 substation, which currently provides electrical power for the 300 Area, is planned in the RCCC baseline for demolition. Electrical services for these retained 300 Area facilities will be required and this paper presents the five (5) options proposed to support this need. Drawings of these options are attached. These options are as follows:

1. Utilize the existing 351 substation and distribution networks with modifications only to support demolition activities.
2. Relocate the 351 substation to the west side of Stevens Drive and utilize the existing distribution networks with modifications only to support demolition activities.
3. Use the City of Richland to provide one (1) new feeder and install one (1) new substation with autotransformer to change the City of Richland's utility voltage from 12.5 kV to match the 300 Area's existing 13.8 kV utility voltage, and convert the 400 Area "maintenance line" into a feeder as the other electrical power provider to the 300 Area.
4. Use the City of Richland to provide two (2) new feeders as the electrical power provider to the 300 Area and install two (2) new substations with autotransformers to change the City of Richland's utility voltage from 12.5 kV to match the 300 Area's existing 13.8 kV utility voltage.
5. Use the City of Richland to provide two (2) new feeders as the electrical power provider to the 300 Area and change the existing 300 Area's 13.8 kV utility voltage to match the City of Richland's utility voltage of 12.5 kV. The identified transformers and equipment will be replaced.

The electrical utility replacement evaluation assumes the following scenario for ownership of the system. However, DOE could decide on alternate ownership scenarios. Similarly each of the options makes assumptions about the system ownership which would be subject to DOE determination of the final responsibility. The long-term retained facilities will be assigned to the Office of Science (SC) for a period of 20 years and reassigned after that time to the Office of Environmental Management (EM) for decontamination, decommissioning, deactivation and

05/16/2007

### 300 Area Electrical Options

demolition (D4). The utilities support equipment and distribution systems will remain assigned to the RCCC until the end of that contract and then be assigned to the SC or another entity as determined by DOE for the balance of the 20 year period and then finally being reassigned to EM for D4 activities.

#### 1.1 Codes and Standards

- National Electrical Safety Code, 2007(NESC)
- NFPA 70, National Electrical Code, 2005 (NEC)
- National Fire Protection Association (NFPA): NFPA 1, 2006; NFPA 101, 2006; NFPA 110, 2005; NFPA 20, 2007; NFPA 70E, 2004.

#### 1.2 Related Electrical Drawings:

- H-3-404 ( 300 Area Switching Diagram)
- H-3-305155 (RPL One Line Diagram)
- H-3-25051 (318 One Line Diagram)
- H-3-28186 (331 One Line Diagram)
- H-3-70832 (326 One Line Diagram)
- H-3-49816 (329 One Line Diagram)
- H-3-21513 (320 One Line Diagram)
- H-3-308838 (338 One Line Diagram)
- H-3-308020 (3760 One Line Diagram)
- H-4-63000 (Single Line Diagram Standby Power System)
- H-2-65589 (400 Area Electrical Distribution One Line Diagram)
- H-4-151806 (451-B Substation Modifications)
- H-13-00261 (300 Area Electrical Distribution Map) and
- H-13-00262 (300 Area Pole and Underground Duct System Map).

#### 1.3 Functional Requirements

- 1.3.1 Normal Power Utility Voltage Level: 13,800 VAC (Options 1-4), 12,500 VAC (Option 5).
- 1.3.2 Standby Power Utility Voltage: 2,400 VAC. The standby power system, as it exists today, will be deenergized when 3621 B/C is decommissioned. There is a 1500 kVA, 13.8 kV – 2.4 kV transformer located at 3621 B/C, which provides a connection between the normal and standby power system. Due to the planned demolition of 3621 B/C, a replacement transformer is required to provide standby power for the 325 Building.
- 1.3.3 Typical Facility Supply Voltage: 480VAC; Phase: 3 Phase; Frequency: 60 Hz or 120/240 VAC; Frequency: 60 Hz.
- 1.3.4 Three retained facilities (312, 325, and 331) require electrical power from two independent sources. The RPL (325 Building) safety basis documents require a standby electrical power system which automatically provides an alternate supply of electrical power to RPL upon failure of the normal source. It provides a reliable

300 Area Electrical Options

- source of power to RPL safety-significant structures, systems, and components (SSCs) under normal and emergency conditions. The two independent utility supply feeders for 331 and 312 Buildings are driven by critical research requirements.
- 1.3.5 Utility Service Transformers: Should remain the same or equivalent to existing in kVA and impedance rating.
  - 1.3.6 Underground Duct banks: Use existing underground duct banks as much as possible for power distribution.
  - 1.3.7 The 352F substation should remain in service to maintain power to the south 300 Area. A condition assessment should be performed to ensure the substation can provide service for 20 years.
  - 1.3.8 The 352E substation may be required to provide an independent power source to the 331 Building (to be determined during design).
  - 1.3.9 Any replacement transformers will be based on load evaluation.
  - 1.3.10 When the utility electrical distribution system uses a different voltage level, the building service and equipment transformers will be replaced or autotransformers will be used.
  - 1.3.11 Outage Requirements:
    - 1.3.11.1 Electric service must be highly reliable. Unplanned power outages are not acceptable, and those that occur must be responded to rapidly.
    - 1.3.11.2 Planned Power Outage Duration: The number and duration of planned outages must be kept to a minimum. Duration may vary depending upon the affected facility. Outages shall be negotiated with the affected building management.
    - 1.3.11.3 Outages should be planned for weekends and off-shift hours.
    - 1.3.11.4 Outage Notification: Major outages require 60 day advanced notification.
    - 1.3.11.5 Standby generators presently at the 325, 331, 339A, 3709A, and 331H Buildings will be retained with the facilities. Additional generators may be required for temporary power during planned outages.
  - 1.3.12 Ownership: The building owner is responsible for electrical distribution from the secondary of the service transformer into the building. Under the RCCC the Surveillance and Maintenance/Utilities (S&M/U) group will maintain ownership of the utility voltage distribution systems in the 300 Area and appropriately transition ownership once the RCCC is fulfilled.
  - 1.3.13 All retained facilities in the 300 Area require electrical power equivalent to the existing supply.
  - 1.3.14 The 3621 B/C Building will be eliminated and the 312 and 325 retained facilities interface transformers (currently 2400 VAC to 480 VAC) will be upgraded to match the new utility voltage.
  - 1.3.15 Overhead Utility Lines: Use existing overhead utility lines where possible. New overhead electrical utility may be used if necessary.
  - 1.3.16 Any new connections will tie into existing infrastructure where feasible and should not interfere with the proposed demolition work scope.

## 300 Area Electrical Options

### 2.0 Option #1

This option would continue to utilize the 351 substation in its current configuration and only perform modification to the existing equipment on as-needed basis to support demolition and remediation activities.

#### 2.1 Introduction

This option would utilize the electrical distribution system as it is currently configured and delay the eventual demolition of the 351 substation and remediation of the underlying 300-4 waste site. The 351 substation and distribution systems will remain assigned to the RCCC until the end of that contract and then be assigned to SC (or other entity determined by DOE) for the balance of the 20 year period and then finally being reassigned to EM for D4 activities. The current configuration of the substation and distribution networks would be adapted in order to accommodate the demolition schedule of the RCCC and maintain the two independent sources of electrical power to the 300 Area facilities. In addition, the 400 Area "maintenance line" would remain as currently configured.

Overall, this option minimizes the cost for adapting the existing distribution system but defers the eventual cleanup of the 300-4 waste site and demolition of the substation. This option is technically the most feasible option with the least costs but it has an unclear regulatory path forward for the un-remediated waste site that lies underneath the 351 substation.

#### 2.2 Scope of Work/System Description

The existing 351 substation and 13.8 kV lines which run north and south along Stevens and George Washington Way would remain. The existing 352F substation and associated electrical utility equipment would be maintained. In addition, the multiple drops from the existing overhead lines down to the existing underground electrical vaults in the 300 Area along Stevens and George Washington Way would also provide possible locations to access the 300 Area underground electrical distribution systems. The existing underground electrical distribution system should be maintained in the 300 Area south of Cypress street and along two pathways to 325 Building.

When the existing underground duct banks interferes with remediation or demolition activities, these systems would be modified to above ground aerial networks until the demolition of the building or remediation of the waste site was complete. Once the demolition or remediation has been accomplished then the undamaged, underground portion could be re-utilized.

Due to the removal of a portion of the fire water loop, it will be required to rework an existing 8" radial water line to maintain the fire hydrants at the existing 351 substation.

## 300 Area Electrical Options

### 3.0 Option #2

This option would replace the 351 substation with new switchgear and relocate the existing primary transformers to the west side of Stevens Drive and only perform modification to the existing distribution equipment on as-needed basis to support demolition and remediation activities. To accomplish this option, a new substation pad and switch yard would be constructed at the new location to provide connection to the existing Bonneville Power Administration Benton-White Bluffs Number One 115 kV transmission line. In addition, currently there are concrete encased lines that run under the road at the northwest corner of the 300 Area that would be utilized to connect the relocated substation to the existing 300 Area overhead distribution network

#### 3.1 Introduction

This option would allow the demolition of the existing 351 substation structure and the remediation of the 300-4 waste site. The new substation will use all new outdoor components except the existing power transformers at the existing substation would be relocated to the new location. The new substation would be located on the west side of Stevens Drive and the transformers would be relocated on a sequenced basis, thus minimizing to the greatest extent possible any single feed configuration to the 300 Area power distribution network. The relocated substation and distribution systems will remain assigned to the RCCC until the end of that contract and then be assigned to SC (or other entity determined by DOE) for the balance of the 20 year period and then finally being reassigned to EM for D4 activities. The current configuration of the substation and distribution networks would be adapted in order to accommodate the demolition schedule of the RCCC and maintain the two independent sources of electrical power to the 300 Area facilities.

This option provides the same functional operations criteria as Option 1 but will involve additional costs to relocate the substation on the west side of Stevens Drive. In addition, this option clears up the regulatory path forward for the 300-4 waste site that lies underneath the 351 substation. In addition, the 400 Area "maintenance line" would be reconnected to the new substation and thus remain as configured.

#### 3.2 Scope of Work/System Description

The existing 351 substation will be replaced, with the exception of the relocated power transformers, to the west side of Stevens Drive. The existing encased concrete ducts would be utilized to connect the new substation to the existing 13.8 kV lines which run north and south along Stevens and George Washington Way. The existing 352F substation and associated electrical utility equipment would be maintained. In addition, the multiple drops from the existing overhead lines down to the existing underground electrical vaults in the 300 Area along Stevens and George Washington Way would also provide possible locations to access the 300 Area underground electrical distribution systems. The existing underground electrical distribution system should be maintained in the 300 Area south of Cypress street and along two

## 300 Area Electrical Options

pathways to 325 Building. The existing underground ducts are relatively new and should have sufficient life for another 20 years.

When the existing underground duct banks interferes with remediation or demolition activities, these systems would be modified to above ground aerial networks until the demolition of the building or remediation of the waste site was complete. Once the demolition or remediation has been accomplished then the undamaged, underground portion could be re-utilized. The Bonneville Power Administration Benton-White Bluffs Number One 115 kV transmission line would require modification at its existing service to the 351 substation, and it would also require modification at the new substation.

### 4.0 Option 3

This option describes a proposal to request the City of Richland to provide one (1) of the new feeders and convert the existing 400 Area "maintenance line" into the other feeder as the electrical service providers to the 300 Area.

#### 4.1 Introduction

This option supports the eventual demolition of the 351 substation and underlying 300-4 waste site but will require the electrical distribution system to be substantially modified in order to continue to provide two independent, reliable electrical power sources for the retained facilities in the 300 Area. In order to minimize the cost for converting the 300 Area distribution system under this option and maintain the requirements for two independent sources of electrical power, the 400 Area "maintenance line" would be converted to a supply line configuration from the 400 Area to the 300 Area. The other source of electrical power would come from the City of Richland's Sandhill Crane Substation. The substation and distribution systems will remain assigned to the RCCC until the end of that contract and then be assigned to SC (or other entity determined by DOE) for the balance of the 20 year period and then finally being reassigned to EM for D4 activities. The interface point with the City of Richland has not been established but will be addressed in the future.

#### 4.2 Scope of Work/System Description

The 400 Area "maintenance line" is a 13.8 kV, 3 MVA line that is utilized to provide maintenance outage power to circuits H4 and H5 in the 4721 Turbine Building located at the FFTF site, as well as the 4622 meteorology tower and several air samplers in the 400 Area. Representatives from WCH and Fluor Hanford discussed changing this line from a 400 Area maintenance outage line to a supplier of electrical power providing a second source of power for the 300 Area facilities. The line would have enough capacity to provide the electrical services needed to support an independent electrical source (less than 3 MVA). The 400 Area will require changes to circuits H4 and H5 within the 4721 turbine building, an additional distribution circuit breaker installed in the 451B substation. A new 1200 foot overhead line between the 451B substation and the 4721 turbine building and a sectionalizing switch near the 4721 turbine building will be installed.

## 300 Area Electrical Options

The City of Richland plans to upgrade the Sandhill Crane substation to support new facilities in the Horn Rapids Triangle (HRT) area. They expect to add a transformer bank which will increase the capacity of the Sandhill Crane substation to 58 MVA, in 2008. This would make it possible to route a single utility line from the Sandhill Crane substation to the 300 Areas to support the retained facilities. A new substation consisting of distribution breakers, autotransformer circuit breakers, and an autotransformer to adjust the City of Richland's utility voltage level from 12.5 kV to the existing 300 Area's utility voltage of 13.8 kV, will be required. The existing 13.8 kV overhead lines in the south end of the 300 Area which run north and south along Stevens would become an extension of the 400 Area "maintenance line" connecting the 352F substation to the 451B substation. The existing 352F substation and associated electrical utility equipment would be maintained. Electrical power could be delivered to the 325 Building using the existing underground duct lines that run from the west side of 325 Building, around the 329 Building, and west over to the overhead lines along Stevens Drive. A second route for electrical supply to the 325 Building would be the existing underground duct lines coming from existing electrical vaults by the 318 Building, under Cypress St, and north along California Ave, and over to the 325 Building.

To maintain power to the retained facilities during demolition and remediation activities, some reconfiguration and electrical work will be required at some of the utility switches and vaults. This task will be coordinated by the S&M/U group in order to minimize any impacts to these facilities.

The Bonneville Power Administration Benton-White Bluffs Number One 115 kV transmission line would require modification at its existing service to the 351 substation to maintain continuity of the line.

### **5.0 Option 4**

#### **5.1 Introduction**

This option describes a proposal to request the City of Richland become the provider for new electrical utilities to the 300 Area and maintain the 300 Area's utility voltage at 13.8 kV. The electrical power would be extended to the 300 Area from the City of Richland, Sandhill Crane Substation. The 352F substation and on site distribution systems will remain assigned to the RCCC until the end of that contract and then be assigned to SC (or other entity determined by DOE) for the balance of the 20 year period and then finally being reassigned to the EM for D4 activities. The interface point with the City of Richland has not been established but will be addressed in the future.

#### **5.2 Scope of Work/System Description**

The City of Richland plans to upgrade the Sandhill Crane substation to support new facilities in the HRT area. The substation is currently configured as two independent primary sources of power from the Bonneville Power Administration White-Bluffs substation and the Richland



### 300 Area Electrical Options

Switch (near Fred Meyer on Thayer Dr.) which meets the requirements for the retained 300 Area facilities. They expect to add a transformer bank which will increase the capacity of the Sandhill Crane substation to 58 MVA, in 2008. This would make it possible to route two separate utility lines from the Sandhill Crane substation to the HRT and 300 Area to support the retained facilities. WCH has conceptual City of Richland drawings which show how the City could provide the necessary electrical utilities to the 300 Area. After the City of Richland upgrades are completed for the support of the HRT area, it will be extended to the 300 Area.

The two new 12.5 kV feeds will originate from the Sandhill Crane substation in underground duct banks and cross under Stevens into the corner of the HRT area. Each line will transition to open wire overhead distribution construction and one 12.5 kV line will be routed north along the east side of Stevens and connect to the new substation at the south west corner of the 300 Area. The second overhead 12.5 kV line will be routed north from the corner of George Washington Way and Horn Rapids Road along George Washington Way and connect to the new substation at the southeast corner of the 300 Area near trailer MO-265.

The two new substations will consist of distribution breakers, an autotransformer with circuit breakers for adjusting the City of Richland's utility voltage level from 12.5 kV to the existing 300 Area's utility voltage of 13.8 kV. The existing 13.8 kV lines in the south end of the 300 Area, which run north and south along Stevens, and the underground lines that parallel George Washington Way will connect to the new substations. The overhead 13.8 kV line that runs west to east between George Washington Way and Stevens will be upgraded to become a maintenance line between the two new substations. There are multiple drops existing from these overhead lines down to the existing 300 Area underground electrical distribution system. Existing underground electrical vaults in the 300 Area along Stevens and George Washington Way also provide possible locations to access the 300 Area underground electrical distribution system.

The existing underground electrical distribution system should be maintained in the 300 Area south of Cypress Street and along two pathways to the 325 Building. This existing underground utility system should have sufficient life for another 20 years. The existing 352F substation and associated electrical utility equipment should be maintained. Reuse of the existing utility infrastructure will minimize required modification costs.

The 400 Area 13.8 kV "maintenance line" will be powered from the 400 Area 451B substation which will supply power to the 4622 meteorology tower and several air samplers in the 400 Area. Feeding the maintenance line from the 400 Area will require changes to circuits H4 and H5 within the 4721 turbine building, an additional distribution circuit breaker installed in the 451B substation. A new 1200 foot overhead line between the 451B substation and the 4721 turbine building and a sectionalizing switch near the 4721 turbine building will be installed.

Electrical power could be delivered to 325 Building using the existing underground duct lines that run from west side of the 325 Building, around the 329 Building, and west over to the overhead lines along Stevens Drive. A second route for electrical supply to the 325 Building

## 300 Area Electrical Options

would be the existing underground duct lines coming from existing electrical vaults by the 318 Building, under Cypress St, and north along California Ave, and over to the 325 Building.

To maintain power to the retained facilities during demolition and remediation activities some reconfiguration and electrical work will be required at some of the utility switches and vaults to maintain power to the retained facilities.

The Bonneville Power Administration Benton-White Bluffs Number One 115 kV transmission line would require modification at its existing service to the 351 substation to maintain continuity of the line.

### 6.0 Option 5

#### 6.1 Introduction

This option describes a proposal to request the City of Richland become the supplier for new electrical power to the 300 Area and change the utility voltage to 12.5 kV to match the City of Richland. The electrical power would be extended to the 300 Area from the City of Richland, Sandhill Crane Substation. The 352F substation and on site distribution systems will remain assigned to the RCCC until the end of that contract and then be assigned to SC (or other entity determined by DOE) for the balance of the 20 year period and then finally being reassigned to the EM for D4 activities. The interface point with the City of Richland has not been established but will be addressed in the future.

#### 6.2 Scope of Work/System Description

The City of Richland plans to upgrade the Sandhill Crane substation to support new facilities in the HRT area. The substation is currently configured as two independent primary sources of power from the Bonneville Power Administration White-Bluffs substation and the Richland Switch (near Fred Meyer on Thayer Dr.) which meets the requirements for the retained 300 Area facilities. The City expects to add a transformer bank which will increase the capacity of Sandhill Crane substation to 58 MVA, in 2008. This would make it possible to route two separate utility lines from the Sandhill Crane substation to the HRT and 300 Areas to support the retained facilities. WCH has conceptual City of Richland drawings which show how the City could provide the necessary electrical utilities to the 300 Area. After the City of Richland upgrades are completed for the support of the HRT area, it will be extended to the 300 Area.

The two new 12.5 kV feeds will originate from the Sandhill Crane substation in underground duct banks and cross under Stevens into the corner of the HRT area. Each line will transition to open wire overhead distribution construction and one 12.5 kV line will be routed north along the east side of Stevens and connect to the existing overhead lines at the south west corner of the 300 Area. The second overhead 12.5 kV line will be routed north from the corner of George Washington Way and Horn Rapids Road along George Washington Way and connect to the underground lines at to the south east corner of the 300 Area near trailer MO-265.

### 300 Area Electrical Options

All the existing 300 Area utility distribution system that will be reused is currently rated and designed using 15 kV equipment; therefore any changes to the distribution system will be minor except the utility transformers for the retained buildings. The existing utility transformers for each building or equipment will have to be changed to match the new distribution voltage of 12.5 kV. The kVA ratings will remain the same and the impedance ratings will be calculated so the existing buildings will have no significant increase of available fault current. There are multiple drops existing from these overhead lines down to the existing 300 Area underground electrical distribution system. Existing underground electrical vaults in the 300 Area along Stevens and George Washington Way also provide possible locations to access the 300 Area underground electrical distribution system. The existing underground electrical distribution system should be maintained in the 300 Area south of Cypress Street and along two pathways to the 325 Building. This existing underground utility system should have sufficient life for another 20 years. The existing 352F facility and associated electrical utility equipment should be maintained. Reuse of the existing utility infrastructure will minimize required modification costs.

The 400 Area 13.8 kV "maintenance line" will be powered from the 400 Area 451B substation which will supply power to the 4622 meteorology tower and several air samplers in the 400 Area. Feeding the maintenance line from the 400 Area will require changes to circuits H4 and H5 within the 4721 turbine building, an additional distribution circuit breaker installed in the 451B substation. A new 1200 foot overhead line between the 451B substation and the 4721 turbine building and a sectionalizing switch near the 4721 turbine building will be installed.

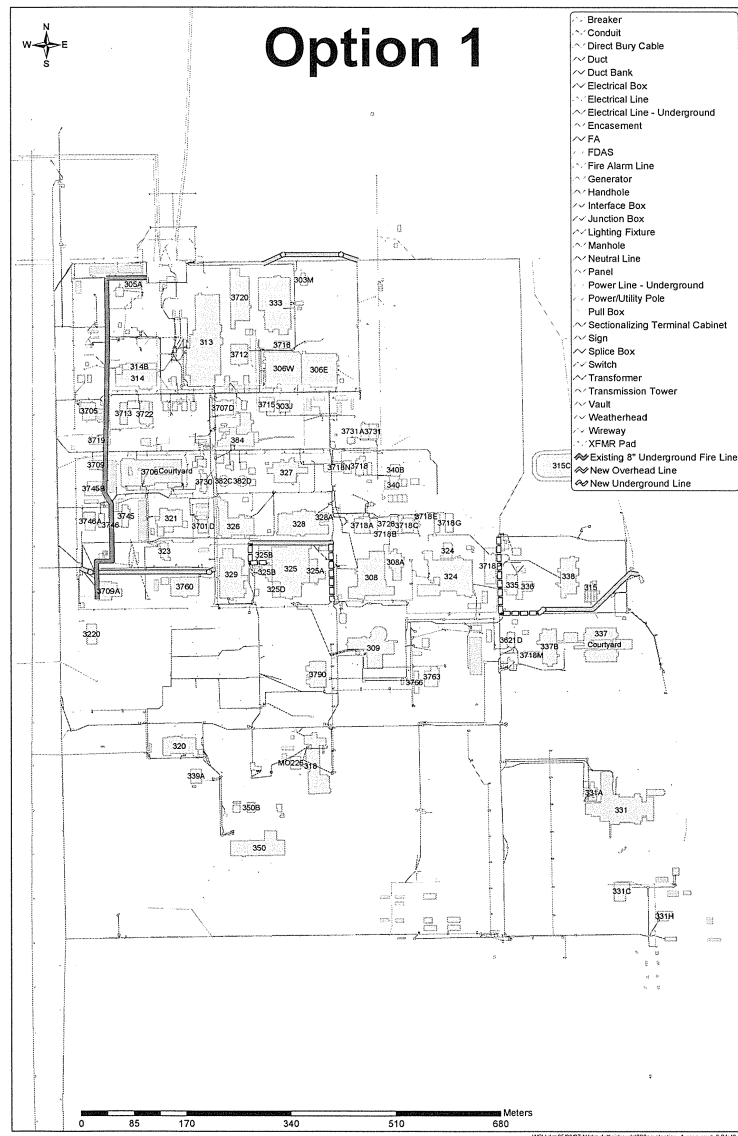
Electrical power could be delivered to 325 Building using the existing underground duct lines that run from west side of the 325 Building, around the 329 Building, and west over to the overhead lines along Stevens Drive. A second route for electrical supply to the 325 Building would be the existing underground duct lines coming from existing electrical vaults by the 318 Building, under Cypress St, and north along California Ave, and over to the 325 Building.

To maintain power to the retained facilities during demolition and remediation activities some reconfiguration and electrical work will be required at some of the utility switches and vaults to maintain power to the retained facilities.

The Bonneville Power Administration Benton-White Bluffs Number One 115 kV transmission line would require modification at its existing service to the 351 substation to maintain continuity of the line.

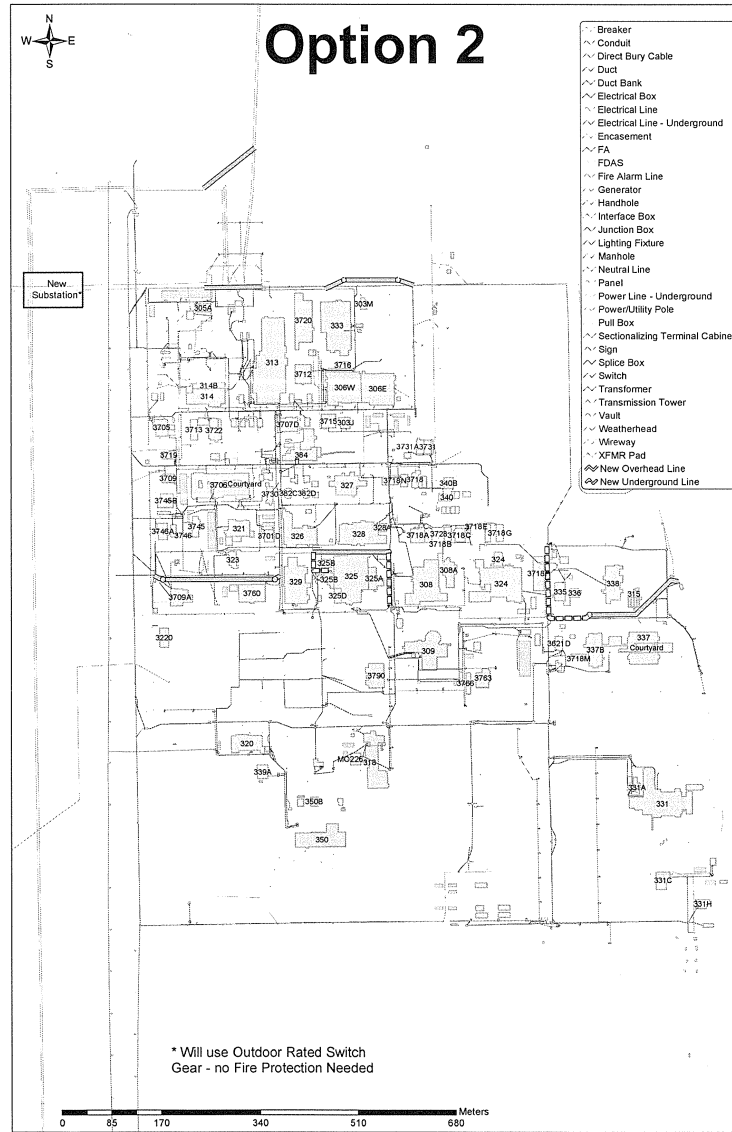
300 Area Electrical Options

Option 1 Map



300 Area Electrical Options

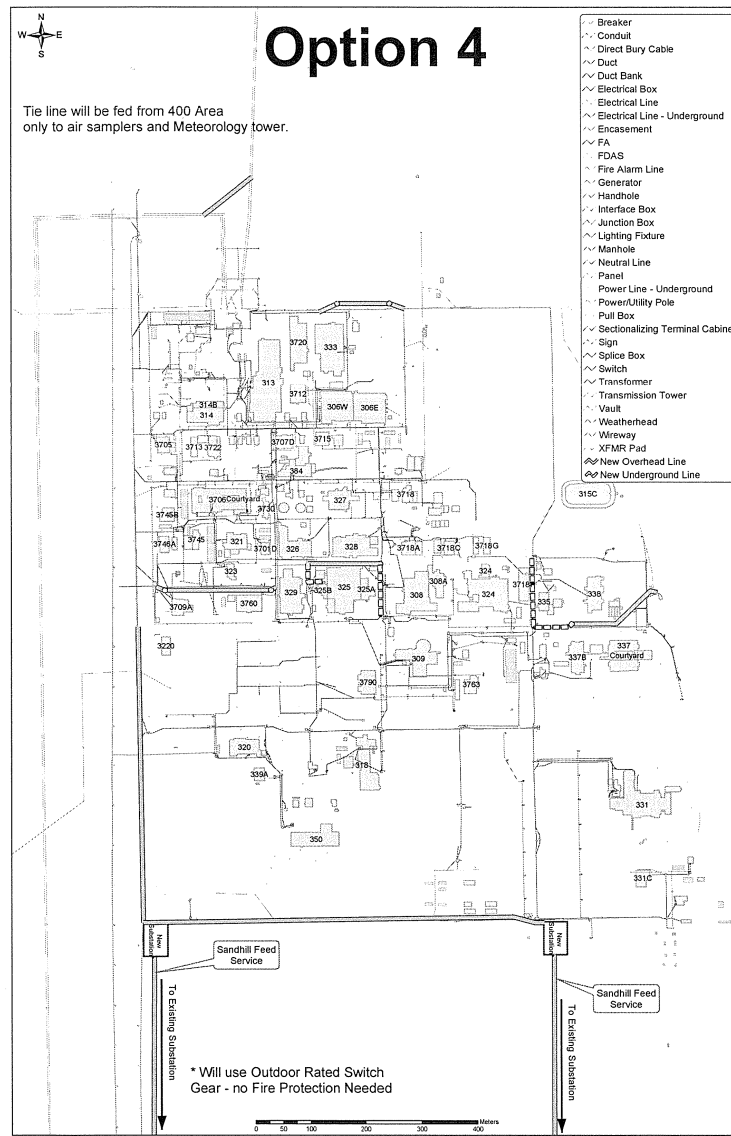
Option 2 Map





300 Area Electrical Options

Option 4 Map









## Cost Estimate Summary



<b>TITLE:</b>	300 AREA UTILITY RELOCATION PROJECT ELECTRICAL SYSTEMS MODIFICATIONS	<b>Estimate Number:</b>	1004 Elect
<b>AREA:</b>	300 Area	<b>Revision:</b>	Rev 0
<b>Estimate Requestor:</b>	Don McBride	<b>Date Prepared:</b>	04/18/07
<b>Prepared By:</b>	djiakubek	<b>Date Revised:</b>	05/16/07
		<b>WBS Number:</b>	1.04
		<b>Estimate Type:</b>	Pre-Concept

**1.0 Purpose / Scope Description:**  
Provide 5 Options incorporating modifications or upgrades to the 300 Area electrical systems.

**2.0 Scope of Estimate**  
Modifications to the 300 Area electrical systems are needed to accommodate the demolition of certain 300 Area buildings and remediation of waste sites. At the same time certain 300 Area facilities and equipment are to remain in service for extended operation (> 20 years). Therefore the existing electrical systems providing services to those buildings and equipment require re-work to enable decommissioning and continued operation to be performed simultaneously.  
- Five Options have been selected to capture the 300 Area electrical modifications. Each Option will be evaluated by WCH Management for it's technical attributes and operational practices including associated cost.  
- Enclosed in the cost estimates for Option 1, 2, 3, 4, and 5 are costs associated with: the City of Richland feeding electrical power to the 300 Area; subcontractor construction costs; portions of Flour Hanford support and electrical system alteration costs; and portions of Bonneville Power support and electrical system alterations. For each Option's design and written scope details see WCH Design Engineering reference documents.  
  
Because of the electrical role in the 300 Area, the system are required by DOE orders to have a two feed system (primary and secondary) thereby eliminating a possibility of a single feed failure. A looped system is required wherever the DOE order is applicable in the 300 Area.  
This estimate provides 5 Options incorporating the modifications or upgrades to the 300 Area electrical systems.

**OPTION 1: Retain 351 Substation**

- \* Perform Constructability Discussions & Permitting Process
- \* Move Site
- \* Provide Project Support for Duration
- \* Install North End Power Feed Circuits L6, L4, & L1
- \* Install Bio-Pump Feed Service
- \* Install 325 Secondary Feed Service
- \* Install West Side Secondary Feed Service
- \* Rework Existing Fire Protection System Feeding 351 Sub-Station
- \* Clean Up Area, Demobe, & Close-out Project

**OPTION 2: Relocate 351 Substation**

- \* Perform Constructability Discussions & Permitting Process
- \* Move Site
- \* Provide Project Support for Duration
- \* Relocate 351 Sub-Station to the West Side of Stevens Drive
- \* Install Bonneville Power Transmission Line Pass-thru Line With New Tower and Poles North of 300 Area
- \* Install North End Power Feed Circuits L6, L4, & L1
- \* Install Power Feed Bridge Over 351 to Circuits L6, L4, & L1
- \* Install Bio-Pump Feed Service
- \* Install 325 Stand-by Feed Service
- \* Install West Side Secondary Feed Service
- \* Fire Suppression Systems
- \* Clean Up Area, Demobe, & Close-out Project

**OPTION 3: Route One Power Feed Line From the City of Richland's Sand Hill Crain Substation and a Secondary Power Feed Line From 400 Area**

- \* Perform Constructability Discussions & Permitting Process
- \* Move Site
- \* Provide Project Support for Duration
- \* Provide Expansion Capabilities to Sand Hill Crane Substation & Power to South End of Triangle
- \* Install Over-head Lines From South Corner of PNNL Triangle to 300 Area South West Power Feed Sub-Station
- \* Install West Side Power Feed Sub-Station
- \* Install West Side Arial Lines to Existing 300 Area System
- \* Install 400 Area Power Feed to 300 Area North End
- \* Install Bonneville Power Transmission Line Pass-thru Line With New Tower and Poles North of 300 Area
- \* Install North End Power Feed Circuits L6, L4, & L1
- \* Install Power Feed Bridge Over 351 to Circuits L6, L4, & L1
- \* Install Bio-Pump Feed Service
- \* Install 325 Secondary Feed Service
- \* Install West Side Secondary Feed Service
- \* Fire Suppression Systems
- \* Clean Up Area, Demobe, & Close-out Project



### Cost Estimate Summary



<b>TITLE:</b>	<b>300 AREA UTILITY RELOCATION PROJECT ELECTRICAL SYSTEMS MODIFICATIONS</b>		<b>Estimate Number:</b>	1004 Elect	
<b>AREA:</b>	300 Area		<b>Revision:</b>	Rev 0	
<b>Estimate Requestor:</b>	Don McBride	<b>Date Prepared:</b>	04/18/07	<b>WBS Number:</b>	1.04
<b>Prepared By:</b>	djakubek	<b>Date Revised:</b>	05/16/07	<b>Estimate Type:</b>	Pre-Concept

**OPTION 4: Route Two Power Feed Lines From the City of Richland's Sand Hill Crain Substation to South End of 300 Area and Dispatch Power Using Auto Transformers**

- \* Perform Constructability Discussions & Permitting Process
- \* Mobe Site
- \* Provide Project Support for Duration
- \* Provide Expansion Capabilities to Sand Hill Crane Substation & Power to South End of Triangle
- \* Install Over-head Lines From South Corner of PNNL Triangle to 300 Area South West & South East Sub-Stations
- \* Install West Side Power Feed Sub-Station
- \* Install Cross-over Tie From West Sub-Station to East Sub-Station With Arial Line
- \* Install West Side Arial Lines to Existing 300 Area System
- \* Install East Side Power Feed Sub-Station
- \* Install 400 Area Power Feed to Air Samplers & Meteorology Tower
- \* Install Bonneville Power Transmission Line Pass-thru Line With New Tower and Poles North of 300 Area
- \* Install North End Power Feed Circuits L6, L4, & L1
- \* Install Bio-Pump Feed Service
- \* Install 325 Secondary Feed Service
- \* Install West Side Secondary Feed Service
- \* Fire Suppression Systems
- \* Clean Up Area, Demobe, & Close-out Project

**OPTION 5: Route Two Power Feed Lines From the City of Richland's Sand Hill Crain Sub-Station to 300 Area South End and Install Transformers At Various 300 Area Connection Points Transitioning 12.74 KVA Feed to 13.8KVA**

- \* Perform Constructability Discussions & Permitting Process
- \* Mobe Site
- \* Provide Project Support for Duration
- \* Provide Expansion Capabilities to Sand Hill Crane Substation & Power to South End of Triangle
- \* Install Over-head Power Lines From South Corner of PNNL Triangle to East and West Demarcation Points
- \* Install West Side Arial Lines to Existing 300 Area System
- \* Install Transformers at Various Locations in the 300 Area Transitioning 12.74 KVA Feed From SH Sub-Station to 13.8 KVA
- \* Install 400 Area Power Feed to Air Samplers & Meteorology Tower
- \* Install Bonneville Power Transmission Line Pass-thru Line With New Tower and Poles North of 300 Area
- \* Install North End Power Feed Circuits L6, L4, & L1
- \* Install Bio-Pump Feed Service
- \* Install 325 Stand-by Feed Service
- \* Install West Side Stand-by Feed Service
- \* Fire Suppression Systems
- \* Clean Up Area, Demobe, & Close-out Project

**3.0 Basis and Assumptions:**

1. Options are estimated to be performed by a Subcontractor, City of Richland, WCH, Flour Hanford, and Bonneville Power with associated cost adders.
2. Scope does not include work with radioactive or hazardous materials. Assume Personal Protection Equipment (PPE) beyond hard hat, steel toes & protective eye wear will not be required by OEM or Subcontractor personnel.
3. Engineering and design basis is pre-conceptual with less than 1% design completed.
4. Labor pricing based on FY07 Hanford Site Stabilization Agreement (HSSA) rates.
5. Equipment priced using 60% of current Blue Book rates.
6. Bulk material pricing, labor unit rates, equipment, and subcontractor pricing were estimated from discussions with WCH Engineers, Flour Hanford support personnel, Other project support personnel, RS Means Estimating Guide, and Estimator's experience as applicable. Vendor pricing was used for a small portion of equipment and sub-tier Subcontractors costs.
7. See individual estimate sheets for scope details and further assumptions applied to Option segments.

**4.0 Exclusions:**

1. Indirect Costs for oversight and support from WCH, PNNL, Flour Hanford, Bonneville Power, Project Design, project contingency and project risk analysis, or their associated overhead and fees ARE NOT included in these Pre-Conceptual Electrical Option cost estimates.
2. Life Cycle, system maintenance, or other costs outside of the construction costs ARE NOT captured in the these Option estimates.
3. Costs are in current 2007 dollars with no escalation for construction performed after 2007.



### Cost Estimate Summary



TITLE:	300 AREA UTILITY RELOCATION PROJECT ELECTRICAL SYSTEMS MODIFICATIONS		Estimate Number:	1004 Elect	
AREA:	300 Area		Revision:	Rev 0	
Estimate Requestor:	Don McBride	Date Prepared:	04/18/07	WBS Number:	1.04
Prepared By:	djakubek	Date Revised:	05/16/07	Estimate Type:	Pre-Concept

5.0 Estimated Cost				
Total estimated cost (\$1,000s)	Estimated Cost	Contingency %	Contingency \$\$\$	TEC
Option 1: Retain 351 Substation	\$954	30%	\$286	\$1,240
Option 2: Relocate 351 Substation	\$2,029	40%	\$812	\$2,841
Option 3: Feed From Richland & 400 Area	\$3,375	35%	\$1,181	\$4,556
Option 4: Two Lines From Richland / Auto Transformers	\$5,118	35%	\$1,791	\$6,909
Option 5: Two Lines From Richland / Buildings Transformers	\$4,712	40%	\$1,885	\$6,597

6.0 Estimate Review			
	Name (print)	Signature	Date
Estimator	Dan Jakubek		5-22-07
Estimating Manager	Doug Ahmer		5-22-07
Task Manager	Don McBride		5-22-07
Project Controls Lead			



PROPRIETARY INFORMATION

Data furnished in connection with this proposal shall not be disclosed outside WCH approval, and shall not be duplicated, used, or discussed for any purpose other than to evaluate the proposal.

WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #1**  
**SUBJECT: 2.0 Retain 351 Substation**  
**\* Rework Power Feeds At 5 Loc. Inside 300 Area**

Estimate No : 1004-Elect-Opt#1  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
<b>2.1 - Perform Constructability Discussions &amp; Permitting Process</b>														
Includes activities such as: SubK perform constructability reviews for each system segment with approval organizations (Flour Hanford, PNNL, & DOE; SubK perform construction start-up approval documentation & work packages; & develop procurement contracts.														
1	SubK Meetings w/WCH, Flour Hanford, Others & Discuss Constructability Activities - Incl initial in-house review, develop schedule, procurements, etc ; meet w/WCH & FH for discussing scope; prepare/review construction permitting docs. - Est 3 Design/Mgr personnel x 2wks & mat'l allowance.	3	Per	80.0	240	\$ 69.88	\$ 16,771	\$ 350	\$ 1,050	\$ -	\$ -	\$ -	\$ -	\$ 17,821
<b>Subtotal</b>					240		\$16,771		\$ 1,050		\$ -		\$ -	\$17,821
<b>2.2 - Mobe Site</b>														
Includes personnel training, set up equipment, layout and survey area, & prepare for construction activities. Est majority of equipment owned by SubK w/other pcs available in surrounding area within 100 miles.														
2	Engineer - Out line mat'l take-offs, support procurements, dvlp Work Pkgs, & meet w/WCH & Flour Hanford for start-up.	1	Per	40.0	40	\$ 69.88	\$ 2,795	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,795
3	Superintendent - Support mat'l take-offs, procurements, dvlp Work Pkgs, & meet w/WCH & Flour Hanford for start-up. Est 40/hrs	1	Per	40.0	40	\$ 59.53	\$ 2,381	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,381
4	Surveyors - Used Fld Support Eng rate - 2 man crew 40hrs	2	Ea	40.0	80	\$ 59.14	\$ 4,731	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,731
5	Training Budget - Estimated amount for Subcontractor training expenses. Allowance - \$250 per person	12	Ea	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250.00	\$ 3,000	\$ 3,000
6	Training Labor - Estimated 8hrs per person to go thru site training. See Training wk shts for Labor costs.	1	Ls	0.0	1	\$ 6,451	\$ 6,451	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,451
7	Lineman Foreman - Support Mobe activities	1	Crft	20.0	20	\$ 61.04	\$ 1,221	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,221
8	Lineman - 4 man crew - Mobe	4	Crft	20.0	80	\$ 55.79	\$ 4,463	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,463
9	Lineman Bucket Truck - w/Man Bucket Boom, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295
10	Lineman Pole Auger Truck - w/Man Boom, Pole Auger, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295

PROPRIETARY INFORMATION

Data furnished in connection with this proposal shall not be disclosed outside WCH approval, and shall not be duplicated, used, or discussed for any purpose other than to evaluate the proposal.

WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #1**  
**SUBJECT: 2.0 Retain 351 Substation**  
**\* Rework Power Feeds At 5 Loc. Inside 300 Area**

Estimate No : 1004-Elect-Opt#1  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
11	Lineman Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400
12	Truck Tractor - Misc Mod, GVW >60000 Lbs, 6x4 / 400 Hp, Diesel, Max GVW 75000, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 50.82	\$ 254	\$ -	\$ -	\$ 254
13	Float Trailer High - Misc Model, 40' Lg, 8 tires, Flatbed, 2 axle / 40 ton, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 8.18	\$ 41	\$ -	\$ -	\$ 41
14	Electrician Foreman - Support mat'l deliveries	1	Crft	20.0	20	\$ 53.75	\$ 1,075	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,075
15	Electrician - Support mat'l deliveries	2	Crft	20.0	40	\$ 50.34	\$ 2,014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,014
16	Electrician Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 Trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400
17	Operator - Support equip & mat'l deliveries	1	Ea	20.0	20	\$ 38.94	\$ 779	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 779
18	Tractor Loader Backhoe - Case 580M Series-2, 4WD, Fixed, Diesel, Dig Depth 14-15', Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 23.56	\$ 118	\$ -	\$ -	\$ 118
19	Labor - Support mat'l deliveries	3	Ea	20.0	60	\$ 32.91	\$ 1,975	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,975
20	Fuel Truck - On-Highway Tanker - Misc Mod, 250 Hp, 4000 Gal, 14000 Lbs, 4x2, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 120	\$ -	\$ -	\$ 120
21	Generator - Misc Mod, 10000 Watts, 16 Hp, Diesel, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 9.02	\$ 27	\$ -	\$ -	\$ 27
22	Misc Sml Equip - Allowance for sml compactors, wire pullers, etc	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 45.00	\$ 135	\$ -	\$ -	\$ 135
23	Office Trailer - Field, Enclosed 8'w x 32'l g - Yr/04 - \$ Allowance for delivery & set-up	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 1,500	\$ 1,500	\$ -	\$ -	\$ 1,500
24	Materials for Mobe support - Allowance	1	Ls	0.0	0	\$ -	\$ -	\$ 2,000	\$ 2,000	\$ -	\$ -	\$ -	\$ -	\$ 2,000
<b>Subtotal</b>					401		\$27,885		\$ 2,000		\$ 3,585		\$ 3,000	\$36,470
<b>2.3 - Project Support for Duration</b>														
Includes personnel, equipment, and rentals supporting the project for duration of construction schedule.														
25	SubK Engineer - Various needs during const activities - Incl wk pkgs, safety eval, & const oversight length of const schd.	67	Dys	3.0	202	\$ 69.88	\$ 14,096	\$ -	\$ -	\$ 47	\$ 3,139	\$ -	\$ -	\$ 17,235
26	SubK Superintendent - Duration of construction	67	Dys	10.0	672	\$ 59.53	\$ 40,028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,028
27	Porta-Let Services - Est 2 single person units for duration of proj - \$20.32 per wk ea (incl rent, cleaning 1x per wk w/pumping) x 2 units = \$40.64/wk	16.8	Wks	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40.64	\$ 683	\$ 683

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

TITLE: **300 Area Utility Replacement Project - Electrical - Option #1**  
SUBJECT: **2.0 Retain 351 Substation**  
**\* Rework Power Feeds At 5 Loc. Inside 300 Area**

Estimate No : 1004-Elect-Opt#1  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
28	Const Trailer 32 x 8' - Incl office expense, supplies, trailer rental, lights & HVAC elect. - Support Subcontractor Mgmt, Supv. & Craft. Est \$50 rent + \$100 utilities = \$150 per week	16.8	Wks	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 150	\$ 2,521	\$ -	\$ -	\$ 2,521
29	Teamster -	67	Dys	5.0	336	\$ 38.42	\$ 12,917	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,917
30	Pickup Truck - 1/2 Ton, 4x2, 143 Hp, Conventional Cab, Gas, Yr/04 - Est 2 trucks x \$10.31/hr ea x 2 = \$20.62 - Est total days x 60%	403	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 20.62	\$ 8,319	\$ -	\$ -	\$ 8,319
31	Pickup Truck - 3/4 Ton, 4x4, 285 Hp, Conventional Cab, Gas, Yr/04 - Est 1 truck x \$18.49/hr - Est total days x 60%	403	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 36.98	\$ 14,919	\$ -	\$ -	\$ 14,919
32	Fuel Truck - On-Highway Tanker - Misc Mod, 250 Hp, 4000 Gal, 14000 Lbs, 4x2, Yr/04 - Est Stand-by Time to 80% of const hrs - Est total days x 20%	134	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 5,381	\$ -	\$ -	\$ 5,381
33	Lube / Mechanic Truck, 2 ton, 800 gal, On-Highway 250 HP, Diesel, Yr/04 - Est Stand-by Time to 80% of const hrs - Est total days x 20%	134	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 48.38	\$ 6,506	\$ -	\$ -	\$ 6,506
34	Misc Sml Equip - Allowance for sml compactors, wire pullers, etc - Est Stand-by Time to 60% of const hrs - Est total days x 40%	269	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 45.00	\$ 12,103	\$ -	\$ -	\$ 12,103
35	Generator - Misc Mod, 10000 Watts, 16 Hp, Diesel, Yr/04 - Est total days x 40%	269	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 9.02	\$ 2,426	\$ -	\$ -	\$ 2,426
36	Materials supporting activities - Allowance	1	Ls	0.0	0	\$ -	\$ -	\$ 2,500	\$ 2,500	\$ -	\$ -	\$ -	\$ -	\$ 2,500
<b>Subtotal</b>										\$ 2,500	\$ 55,315	\$ -	\$ 683	\$ 125,538
<b>2.4 - Install North End Power Feed Circuits L6, L4, &amp; L1</b>														
Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; perform tie-ins; & test service. Assume all D&D activities on existing system is captured in other budgets.														
37	Lineman Crew - Crew #1 - Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ea	5.0	5	\$ 423.00	\$ 2,115	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,115
38	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
39	Lineman Crew #1 - Incl placing hardware on poles. Est 3-60' poles to be prepared for setting w/STD hardware config.	3	Ea	5.0	15	\$ 423.00	\$ 6,345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,345

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #1**  
**SUBJECT: 2.0 Retain 351 Substation**  
**\* Rework Power Feeds At 5 Loc. Inside 300 Area**

Estimate No : 1004-Elect-Opt#1  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
40	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms = 2 x 3 circuits = 6 per pole x 3 poles = 18	18	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 3,557	\$ -	\$ -	\$ -	\$ -	\$ 3,557
41	Poles - 60' Class 2 poles	3	Ea	0.0	0	\$ -	\$ -	\$ 1,254	\$ 3,761	\$ -	\$ -	\$ -	\$ -	\$ 3,761
42	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-60' poles to be prepared for setting NON-STD hardware config (triple-circuit) for elect tie in to existing sys.	2	Ea	20.0	40	\$ 423.00	\$ 16,920	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,920
43	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms = 2 x 3 circuits = 6 per pole x 2 poles = 12	12	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 3,648	\$ -	\$ -	\$ -	\$ -	\$ 3,648
44	Poles - 60' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,254	\$ 2,507	\$ -	\$ -	\$ -	\$ -	\$ 2,507
45	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 5-60' std equipped poles to be placed.	5.0	Ea	6.7	33.5	\$ 501.00	\$ 16,784	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,784
46	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
47	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 800' x 3 x 3 sys = 7200Lf of wire to be placed.	7,200	Lf	0.004	29	\$ 442.00	\$ 12,730	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,730
48	Wire - Est 397.5 & 4/0 type x 3/c per circuit & misc items - Est distance approx 800 Lf - 800 x 3-lines ea cir x 3 sys = 7,200Lf	7,200	Lf	0.0	0	\$ -	\$ -	\$ 1.83	\$ 13,176	\$ -	\$ -	\$ -	\$ -	\$ 13,176
49	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
50	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
	<b>Subtotal</b>				132		\$60,343		\$ 27,648		\$ -		\$ -	\$87,991
	<b>2.5 - Install Bio-Pump Feed Service</b>													
	Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; pull existing wire from existing duct bank/s; install new wire in duct bank/s; perform tie-ins; & test service.													
51	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ea	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
52	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250



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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #1**  
**SUBJECT: 2.0 Retain 351 Substation**  
**\* Rework Power Feeds At 5 Loc. Inside 300 Area**

Estimate No : 1004-Elect-Opt#1  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
53	Lineman Crew #1- Incl placing hardware on poles. Est 2-45' poles to be prepared for setting w/STD hardware config.	2	Ea	5.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
54	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 1,581	\$ -	\$ -	\$ -	\$ -	\$ 1,581
55	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
56	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
57	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 2,432	\$ -	\$ -	\$ -	\$ -	\$ 2,432
58	Fuse Cut-Outs - Incl pole mount pull-dwn swt, & mounting items - Est 1 per tie-in pole x 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
59	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
60	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 4-45' poles to be placed.	4.0	Ea	5.0	20	\$ 501.00	\$ 10,020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,020
61	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
62	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 600' x 3 lines x 3 sys = 3600Lf of wire to be placed.	3,600	Lf	0.004	14	\$ 442.00	\$ 6,365	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,365
63	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 600 Lf - 600 x 2-lines ea cir x 2 sys = 3,600Lf	3,600	Lf	0.0	0	\$ -	\$ -	\$ 1.47	\$ 5,288	\$ -	\$ -	\$ -	\$ -	\$ 5,288
64	Lineman Crew #1- Installing 13.8 Transformer & Vault - Incl digging hole for vault; placing precaste concrete vault; setting excessed transformer on vault; replacing existing transformer fluid w/correct oil; & checking/testing transformer.	1	Ls	20.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #1**  
**SUBJECT: 2.0 Retain 351 Substation**  
**\* Rework Power Feeds At 5 Loc. Inside 300 Area**

Estimate No : 1004-Elect-Opt#1  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
65	Transformer Vault & Transformer - Est vault excavation; place compacted gravel in bottom; install vault, grd rod/s, lid, & transformer; & replace transformer cooling fluid. Assume transformer is existing at site & no new purchase required.	1	Ls	0.0	0	\$ -	\$ -	\$ 8,500	\$ 8,500	\$ -	\$ -	\$ -	\$ -	\$ 8,500
66	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	30.0	30	\$ 545.00	\$ 16,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,350
67	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
68	Electrician Crew #5 - Est pulling existing wire from duct bank - Incl removing wire & placing in disposal cans. Est 400' of wire. Assume pulling 2 bundles of three wires.	2,400	Lf	0.014	33	\$ 335.00	\$ 11,176	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,176
69	Electrician Crew #5 - Est pulling new wire into existing duct bank - Incl installing wire & placing in disposal cans. Est 400' of wire x 3 x 2 sys = 2400Lf. Assume pulling in 2 bundles of three wires.	2,400	Lf	0.014	33	\$ 335.00	\$ 11,176	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,176
70	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 400Lf - 400 x 3-lines ea cir x 2 sys = 2,400Lf	2,400	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 72,000	\$ -	\$ -	\$ -	\$ -	\$ 72,000
71	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
	<b>Subtotal</b>				191		\$80,466		\$97,122		\$0		\$0	\$177,588
	<b>2.6 - Install 325 Secondary Feed Service</b>													
	Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; pull existing wire from existing duct bank/s; install new wire in duct bank/s; perform tie-ins; & test service.													
72	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ea	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
73	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
74	Lineman Crew #1- Incl placing hardware on poles. Est 2-45' poles to be prepared for setting w/STD hardware config.	2	Ea	5.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
75	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 1,581	\$ -	\$ -	\$ -	\$ -	\$ 1,581
76	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #1**  
**SUBJECT: 2.0 Retain 351 Substation**  
**\* Rework Power Feeds At 5 Loc. Inside 300 Area**

Estimate No : 1004-Elect-Opt#1  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
77	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
78	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 2,432	\$ -	\$ -	\$ -	\$ -	\$ 2,432
79	Fuse Cut-Out - Incl pole mount installation hardware- Est 1 per tie-in pole x 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
80	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
81	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 4-45' std equipped poles to be placed.	4.0	Ea	5.0	20	\$ 501.00	\$ 10,020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,020
82	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
83	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 450' x 3 = 1350Lf of wire to be placed.	1,350	Lf	0.004	5	\$ 442.00	\$ 2,387	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,387
84	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 450 Lf - 450 x 3-lines x 1 sys = 1,350Lf	1,350	Lf	0.0	0	\$ -	\$ -	\$ 1.47	\$ 1,983	\$ -	\$ -	\$ -	\$ -	\$ 1,983
85	Lineman Crew #1- Installing 13.8 Transformer & Vault - Incl digging hole for vault; placing precaste concrete vault; setting excessed transformer on vault; replacing existing transformer fluid w/correct oil; & checking/testing transformer.	1	Ls	20.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
86	Transformer Vault & Transformer - Est vault excavation; place compacted gravel in bottom; install vault, grd rod/s, lid, & transformer; & replace transformer cooling fluid. Assume transformer is existing at site & no new purchase required.	1	Ls	0.0	0	\$ -	\$ -	\$ 8,500	\$ 8,500	\$ -	\$ -	\$ -	\$ -	\$ 8,500
87	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	30.0	30	\$ 545.00	\$ 16,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,350
88	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #1**  
**SUBJECT: 2.0 Retain 351 Substation**  
**\* Rework Power Feeds At 5 Loc. Inside 300 Area**

Estimate No : 1004-Elect-Opt#1  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
89	Electrician Crew #5 - Est pulling existing wire from duct bank - Incl removing wire & placing in disposal cans. Est 400' of wire. Assume pulling 2 bundles of three wires.	2	Ea	10.0	20	\$ 335.00	\$ 6,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,700
90	Electrician Crew #5 - Est pulling new wire into existing duct bank - Incl installing wire & placing in disposal cans. Est 300' of wire x 3 x 2 sys = 1,800Lf. Assume pulling in 2 bundles of three wires.	2	Ea	10.0	20	\$ 335.00	\$ 6,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,700
91	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 300Lf - 300 x 3-lines ea cir x 2 sys = 1,800Lf	1,800	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 54,000	\$ -	\$ -	\$ -	\$ -	\$ 54,000
92	Electrician Crew #6 - Install new duct bank from north west corner of bldg to center of west side. Incl excavating; placing 2-4" PVC elect conduit lines & spacers; pour concrete around conduit; & backfill w/compaction. Est 240' of new duct bank	240	Lf	0.17	40	\$ 358.00	\$ 14,320	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,320
93	PVC Elect Conduit 2-4" Sch 40 Lines w/Spacers - incl conduit; pour concrete around conduit; & backfill w/compaction. Est 240' of new duct bank	240	Lf	0.0	0	\$ -	\$ -	\$ 22.62	\$ 5,429	\$ -	\$ -	\$ -	\$ -	\$ 5,429
94	Electrician Crew #5 - Est pulling new wire into new duct bank - Est 240' of wire x 3 x 1 sys = 720Lf. Assume pulling in 1 bundle of three wires.	720	Lf	0.014	10	\$ 335.00	\$ 3,353	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,353
95	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 240Lf - 240 x 3-lines ea cir x 1 sys = 720Lf	720	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 21,600	\$ -	\$ -	\$ -	\$ -	\$ 21,600
96	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
<b>Subtotal</b>					205		\$85,209		\$102,845		\$0		\$0	\$188,055
<b>2.7 - Install West Side Secondary Feed Service</b>														
Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; perform tie-ins; & test service.														
97	Lineman Crew #1 - Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ls	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
98	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #1**  
**SUBJECT: 2.0 Retain 351 Substation**  
**\* Rework Power Feeds At 5 Loc. Inside 300 Area**

Estimate No : 1004-Elect-Opt#1  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
99	Lineman Crew #1- Incl placing hardware on poles. Est 3-45' poles to be prepared for setting w/STD hardware config.	3	Ea	5.0	15	\$ 423.00	\$ 6,345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,345
100	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 3 poles = 12	12	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 2,371	\$ -	\$ -	\$ -	\$ -	\$ 2,371
101	Poles - 45' Class 2 poles	3	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 2,820	\$ -	\$ -	\$ -	\$ -	\$ 2,820
102	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
103	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 2,432	\$ -	\$ -	\$ -	\$ -	\$ 2,432
104	Fuse Cut-Out - Incl pole mount installation hardware- Est 1 per tie-in pole x 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
105	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
106	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 5-45' std equipped poles to be placed.	5.0	Ea	5.0	25	\$ 501.00	\$ 12,525	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,525
107	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
108	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 3600' of wire to be placed.	3,600	Lf	0.004	14	\$ 442.00	\$ 6,365	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,365
109	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 600 Lf - 600 x 3-lines ea cir x 2 sys = 3,600Lf	3,600	Lf	0.0	0	\$ -	\$ -	\$ 1.47	\$ 5,288	\$ -	\$ -	\$ -	\$ -	\$ 5,288
110	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	20.0	20	\$ 545.00	\$ 10,900	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,900
111	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					104		\$48,825		\$18,102		\$0		\$0	\$66,927
<b>2.8 - Rework Fire Protection Sys Feeding 351 Sub-Station</b>														

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #1**  
**SUBJECT: 2.0 Retain 351 Substation**  
**\* Rework Power Feeds At 5 Loc. Inside 300 Area**

Estimate No : 1004-Elect-Opt#1  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
Includes - Lay-out work & survey ground; Excavate at 2 locations of existing line for egressing fire protection line feeding the 351 sub-station. Est excavation to be approx 10' x 10' x 6' deep. Caution due to possible ground contamination; use shoring; drain piping; cut or un-bolt existing line & remove approx 10' of piping; clean line using router & flushing practices; re-install new piping, fittings, & valves as needed; place concrete thrust blocks as needed; perform final flush & pressure test sys; backfill excavations w/sand 1' around piping, & reinstall excavated soil & compact; and re-install gravel & asphalt for road egress as needed. Est 2000' of 8" piping is in scope. Perform system turn-over evaluation w/pressure test & sign off documentation.														
112	SubK Meetings w/WCH, Flour Hanford, Others & Discuss Constructability Activities - Incl initial in-house review, develop schedule, procurements, etc ; meet w/WCH & FH for discussing scope; prepare/review construction permitting docs. - Est 1 Design/Mgr personnel x 2wks & mat'l allowance.	1	Per	80.0	80	\$ 69.88	\$ 5,590	\$ 350	\$ 350	\$ -	\$ -	\$ -	\$ -	\$ 5,940
113	Training Budget - Estimated amount for Subcontractor training expenses. Allowance - \$250 per person	5	Ea	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250.00	\$ 1,250	\$ 1,250
114	Training Labor - Estimated 8hrs per person to go thru site training. See Training wk shfts for Labor costs.	1	Ls	0.0	1	\$ 1,805	\$ 1,805	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,805
115	Sprinkler Fitter Crew #1 - Incl clean line using various size cleaning pig & followed by flushing practices. Est 2000' of 8" piping.	2,000	Lf	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13.90	\$ 27,800	\$ 27,800
<b>Subtotal</b>					81		\$ 7,395		\$ 350		\$ -		\$ 29,050	\$ 36,795
<b>2.9 - Clean Up Area, Demobe, &amp; Close-out Project</b>														
Includes - Cleaning up area; demobe equipment; & close-out proj at site.														
116	Engineer - Close-out various items, incl paper wk, & meet w/WCH & Flour Hanford for site close-out.	1	Per	20.0	20	\$ 69.88	\$ 1,398	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,398
117	Superintendent - Close-out various items, incl paper wk, & meet w/WCH & Flour Hanford for site close-out.	1	Per	20.0	20	\$ 59.53	\$ 1,191	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,191
118	Lineman Foreman - Support Demobe activities - Est 5hrs ea site	1	Crt	20.0	20	\$ 61.04	\$ 1,221	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,221
119	Lineman - 4 man crew - Demobe - Est 5hrs ea site	4	Crt	20.0	80	\$ 55.79	\$ 4,463	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,463
120	Lineman Bucket Truck - w/Man Bucket Boom, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #1**  
**SUBJECT: 2.0 Retain 351 Substation**  
**\* Rework Power Feeds At 5 Loc. Inside 300 Area**

Estimate No : 1004-Elect-Opt#1  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
121	Lineman Pole Auger Truck - w/Man Boom, Pole Auger, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295
122	Lineman Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400
123	Truck Tractor - Misc Mod, GVW >60000 Lbs, 6x4 / 400 Hp, Diesel, Max GVW 75000, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 50.82	\$ 254	\$ -	\$ -	\$ 254
124	Float Trailer High - Misc Model, 40' Lg, 8 tires, Flatbed, 2 axle / 40 ton, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 8.18	\$ 41	\$ -	\$ -	\$ 41
125	Electrician Foreman - Support Demobe activities	1	Crt	10.0	10	\$ 53.75	\$ 538	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 538
126	Electrician - Crew of 4 - Support Demobe activities	4	Crt	5.0	20	\$ 50.34	\$ 1,007	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,007
127	Electrician Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 Trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400
128	Operator - Support equip removal	1	Ea	10.0	10	\$ 38.94	\$ 389	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 389
129	Tractor Loader Backhoe - Case 580M Series-2, 4WD, Fixed, Diesel, Dig Depth 14-15', Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 23.56	\$ 118	\$ -	\$ -	\$ 118
130	Labor - Support mat'l deliveries	3	Ea	20.0	60	\$ 32.91	\$ 1,975	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,975
131	Fuel Truck - On-Highway Tanker - Misc Mod, 250 Hp, 4000 Gal, 14000 Lbs, 4x2, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 120	\$ -	\$ -	\$ 120
132	Generator - Misc Mod, 10000 Watts, 16 Hp, Diesel, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 9.02	\$ 27	\$ -	\$ -	\$ 27
133	Misc Sml Equip - Allowance for sml compactors, wire pullers, etc	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 45.00	\$ 135	\$ -	\$ -	\$ 135
134	Office Trailer - Field, Enclosed 8'w x 32'lg - Yr/04 - \$ Allowance for disconnect & deliver back to Vendor	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 750	\$ 750	\$ -	\$ -	\$ 750
135	Materials for Mobe support - Allowance	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					240		\$12,181		\$ 500		\$ 2,835		\$ -	\$15,516
<b>Total All Activity Segments</b>					2,806		406,116		252,117		61,736		32,733	752,702





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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #2**  
**SUBJECT: 2.0 Relocate 351 Substation**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Relocate Portions of 351 Substation West of Stevens Dr

Estimate No : 1004-Elect-Opt#2  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
<b>2.1 - Perform Constructability Discussions &amp; Permitting Process</b>														
Includes activities such as: SubK perform constructability reviews for each system segment with approval organizations (Flour Hanford, PNNL, & DOE, ; SubK perform construction start-up approval documentation & work packages; & develop procurement contracts.														
1	SubK Meetings w/WCH, Flour Hanford, Others & Discuss Constructability Activities - Incl initial in-house review, develop schedule, procurements, etc ; meet w/WCH & FH for discussing scope; prepare/review construction permitting docs. - Est 3 Design/Mgr personnel x 2wks & mat'l allowance.	3	Per	120.0	360	\$ 69.88	\$ 25,157	\$ 350	\$ 1,050	\$ -	\$ -	\$ -	\$ -	\$ 26,207
<b>Subtotal</b>					360		\$25,157	\$ 1,050		\$ -		\$ -		\$26,207
<b>2.2 - Mobe Site</b>														
Includes personnel training, set up equipment, layout and survey area, & prepare for construction activities. Est majority of equipment owned by SubK w/other pcs available in surrounding area with in 100 miles.														
2	Engineer - Out line mat'l take-offs, support procurements, dvlp Work Pkgs, & meet w/WCH & Flour Hanford for start-up.	1	Per	40.0	40	\$ 69.88	\$ 2,795	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,795
3	Superintendent - Support mat'l take-offs, procurements, dvlp Work Pkgs, & meet w/WCH & Flour Hanford for start-up. Est 40/hrs	1	Per	40.0	40	\$ 59.53	\$ 2,381	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,381
4	Surveyors - Used Fld Support Eng rate - 2 man crew 40hrs	2	Ea	40.0	80	\$ 59.14	\$ 4,731	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,731
5	Training Budget - Estimated amount for Subcontractor training expenses. Allowance - \$250 per person	12	Ea	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250.00	\$ 3,000	\$ 3,000
6	Training Labor - Estimated 8hrs per person to go thru site training. See Training wk shts for Labor costs.	1	Ls	0.0	1	\$ 6,451	\$ 6,451	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,451
7	Lineman Foreman - Support Mobe activities	1	Crft	20.0	20	\$ 61.04	\$ 1,221	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,221
8	Lineman - 4 man crew - Mobe	4	Crft	20.0	80	\$ 55.79	\$ 4,463	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,463
9	Lineman Bucket Truck - w/Man Bucket Boom, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295
10	Lineman Pole Auger Truck - w/Man Boom, Pole Auger, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #2**  
**SUBJECT: 2.0 Relocate 351 Substation**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Relocate Portions of 351 Substation West of Stevens Dr

Estimate No : 1004-Elect-Opt#2  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
11	Lineman Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400
12	Truck Tractor - Misc Mod, GVW >60000 Lbs, 6x4 / 400 Hp, Diesel, Max GVW 75000, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 50.82	\$ 254	\$ -	\$ -	\$ 254
13	Float Trailer High - Misc Model, 40' Lg, 8 tires, Flatbed, 2 axle / 40 ton, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 8.18	\$ 41	\$ -	\$ -	\$ 41
14	Electrician Foreman - Support mat'l deliveries	1	Crft	20.0	20	\$ 53.75	\$ 1,075	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,075
15	Electrician - Support mat'l deliveries	2	Crft	20.0	40	\$ 50.34	\$ 2,014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,014
16	Electrician Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 Trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400
17	Operator - Support equip & mat'l deliveries	1	Ea	20.0	20	\$ 38.94	\$ 779	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 779
18	Tractor Loader Backhoe - Case 580M Series-2, 4WD, Fixed, Diesel, Dig Depth 14-15', Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 23.56	\$ 118	\$ -	\$ -	\$ 118
19	Labor - Support mat'l deliveries	3	Ea	20.0	60	\$ 32.91	\$ 1,975	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,975
20	Fuel Truck - On-Highway Tanker - Misc Mod, 250 Hp, 4000 Gal, 14000 Lbs, 4x2, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 120	\$ -	\$ -	\$ 120
21	Generator - Misc Mod, 10000 Watts, 16 Hp, Diesel, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 9.02	\$ 27	\$ -	\$ -	\$ 27
22	Misc Sml Equip - Allowance for sml compactors, wire pullers, etc	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 45.00	\$ 135	\$ -	\$ -	\$ 135
23	Office Trailer - Field, Enclosed 8'w x 32'l g - Yr/04 - \$ Allowance for delivery & set-up	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 1,500	\$ 1,500	\$ -	\$ -	\$ 1,500
24	Materials for Mobe support - Allowance	1	Ls	0.0	0	\$ -	\$ -	\$ 2,000	\$ 2,000	\$ -	\$ -	\$ -	\$ -	\$ 2,000
	<b>Subtotal</b>				401		\$27,885		\$ 2,000		\$ 3,585		\$ 3,000	\$36,470
	<b>2.3 - Project Support for Duration</b>													
	Includes personnel, equipment, and rentals supporting the project for duration of construction schedule.													
25	SubK Engineer - Various needs during const activities - Incl wk pkgs, safety eval, & const oversight length of const schd.	96	Dys	3.0	288	\$ 69.88	\$ 20,109	\$ -	\$ -	\$ 47	\$ 4,479	\$ -	\$ -	\$ 24,588
26	SubK Superintendent - Duration of construction	96	Dys	10.0	959	\$ 59.53	\$ 57,103	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 57,103
27	Porta-Let Services - Est 2 single person units for duration of proj - \$20.32 per wk ea (incl rent, cleaning 1x per wk w/pumping) x 2 units = \$40.64/wk	24.0	Wks	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40.64	\$ 975	\$ 975

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #2**  
**SUBJECT: 2.0 Relocate 351 Substation**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Relocate Portions of 351 Substation West of Stevens Dr

Estimate No : 1004-Elect-Opt#2  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
28	Const Trailer 32 x 8' - Incl office expense, supplies, trailer rental, lights & HVAC elect. - Support Subcontractor Mgmt, Supv, & Craft. Est \$50 rent + \$100 utilities = \$150 per week	24.0	Wks	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 150	\$ 3,597	\$ -	\$ -	\$ 3,597
29	Teamster -	96	Dys	5.0	480	\$ 38.42	\$ 18,427	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,427
30	Pickup Truck - 1/2 Ton, 4x2, 143 Hp, Conventional Cab, Gas, Yr/04 - Est 2 trucks x \$10.31/hr ea x 2 = \$20.62 - Est total days x 60%	576	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 20.62	\$ 11,868	\$ -	\$ -	\$ 11,868
31	Pickup Truck - 3/4 Ton, 4x4, 285 Hp, Conventional Cab, Gas, Yr/04 - Est 1 truck x \$18.49/hr - Est total days x 60%	576	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 36.98	\$ 21,283	\$ -	\$ -	\$ 21,283
32	Fuel Truck - On-Highway Tanker - Misc Mod, 250 Hp, 4000 Gal, 14000 Lbs, 4x2, Yr/04 - Est Stand-by Time to 80% of const hrs - Est total days x 20%	192	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 7,676	\$ -	\$ -	\$ 7,676
33	Lube / Mechanic Truck, 2 ton, 800 gal, On-Highway 250 HP, Diesel, Yr/04 - Est Stand-by Time to 80% of const hrs - Est total days x 20%	192	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 48.38	\$ 9,281	\$ -	\$ -	\$ 9,281
34	Misc Sml Equip - Allowance for sml compactors, wire pullers, etc - Est Stand-by Time to 60% of const hrs - Est total days x 40%	384	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 45.00	\$ 17,266	\$ -	\$ -	\$ 17,266
35	Generator - Misc Mod, 10000 Watts, 16 Hp, Diesel, Yr/04 - Est total days x 40%	384	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 9.02	\$ 3,461	\$ -	\$ -	\$ 3,461
36	Materials supporting activities - Allowance	1	Ls	0.0	0	\$ -	\$ -	\$ 2,500	\$ 2,500	\$ -	\$ -	\$ -	\$ -	\$ 2,500
<b>Subtotal</b>					1,727		\$95,639		\$ 2,500		\$ 78,911		\$ 975	\$178,024
<b>2.4 - Relocate 351 Sub-Station to West Side of Stevens</b>														
Includes - Meet w/BP for constructability review & tie-in connection process; lay-out work; survey area; clear & grub area; remove 6"-8" of soil & spread outside of perimeter yard; install substation grounding system; install gravel & compact; install equipment pads; install 115/13.8 cable tie-in support structure/hangers; install area perimeter lights; relocate 2-transformers from 351 substation to mounting pad; install 6-leg splitter system w/switches; install switch station; & safety/security 8' high chain link fence; install access road w/200' x 24' wide w/10" compacted gravel & turn-in off Stevens Drive.														
37	Lineman Crew - Crew #1 - Incl mobe to area; lay-out work; & survey area for pole installation.	1	Ls	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
38	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
39	Estimate Yard Portion - Est yard based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 85,000	\$ 85,000	\$ 85,000

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #2**  
**SUBJECT: 2.0 Relocate 351 Substation**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Relocate Portions of 351 Substation West of Stevens Dr

Estimate No : 1004-Elect-Opt#2  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
40	Estimate Elect BP Tie-in Stanchions w/Wire & Tubing to Transformer - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,000	\$ 75,000	\$ 75,000
41	Estimate Installation of Transformers - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	2	Ea	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 100,000	\$ 100,000
42	Estimate Splitter System w/Stanchion Piping/Wire - Est 6 splitters w/switches - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ 100,000	\$ 100,000
43	Estimate Switch Station Using Out-Door Rated Equip - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 162,000	\$ 162,000	\$ 162,000
44	Estimate Road Extension & Turn-in - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ 25,000	\$ 25,000
45	Electrician Crew #6 - Install new duct bank from Substation to Stevens Drive Connection point. Incl excavating; placing 4-4" PVC elect conduit lines & spacers; pour concrete around conduit; & backfill w/compaction. Est 100' of new duct bank	100	Lf	0.34	34	\$ 358.00	\$ 12,172	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,172
46	PVC Elect Conduit 4-4" Sch 40 Lines w/Spacers - incl conduit; pour concrete around conduit; & backfill w/compaction. Est 100' of new duct bank	100	Lf	0.0	0	\$ -	\$ -	\$ 52.20	\$ 5,220	\$ -	\$ -	\$ -	\$ -	\$ 5,220.00
47	Electrician Crew #4 - Est pulling new wire into new duct bank - Est 100' of wire x 3 x 3 sys = 900Lf. Assume pulling in 3 bundles of three wires.	3.0	Ea	3.5	11	\$ 335.00	\$ 3,518	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,518
48	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 100Lf - 100 x 3-lines ea cir x 3 sys = 900Lf	900	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 27,000	\$ -	\$ -	\$ -	\$ -	\$ 27,000
49	Electrician Crew #6 - Install Pull Box on West Side of Stevens Dr Connecting to Existing Under Road Conduit - Est excavation & installation of box (est 4'x6'x4').	1	Ea	10.0	10	\$ 358.00	\$ 3,580	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,580
50	Precaste Concrete Pull Box -	1	Ls	0.0	0	\$ -	\$ -	\$ 1,600	\$ 1,600	\$ -	\$ -	\$ -	\$ -	\$ 1,600

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #2**  
**SUBJECT: 2.0 Relocate 351 Substation**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Relocate Portions of 351 Substation West of Stevens Dr

Estimate No : 1004-Elect-Opt#2  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
51	Lineman Crew #1- Incl placing hardware on transition pole on east side of Stevens Dr. Est 1-45' pole to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	3	Ea	5.0	15	\$ 423.00	\$ 6,345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,345
52	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 3 circuits per pole = 6 arms per pole x 1 pole = 6	6	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 1,824	\$ -	\$ -	\$ -	\$ -	\$ 1,824
53	Fuse Cut-Out - Incl pole mount installation hardware - Est 1 per sys x 3 sys	3	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 3,465	\$ -	\$ -	\$ -	\$ -	\$ 3,465
54	Poles - 45' Class #2 pole	1	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 940	\$ -	\$ -	\$ -	\$ -	\$ 940
55	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 1-45' std equipped pole to be placed.	1.0	Ea	5.0	5	\$ 501.00	\$ 2,505	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,505
56	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
57	Electrician Crew #5 - Est pulling from new pull box into existing under road conduit to new transition pole on east side of Stevens Dr - Est 150' of wire x 3 x 3 sys = 1,350Lf. Assume pulling in 3 bundles of three wires.	3	Ea	5.0	15	\$ 335.00	\$ 5,025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,025
58	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 150Lf - 150 x 3-lines ea cir x 3 sys = 1,350Lf	1,350	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 40,500	\$ -	\$ -	\$ -	\$ -	\$ 40,500
59	Lineman Crew #4 - Support BP Tie-ins - Allowance for performing tie-in; & completing system test & approval.	1	Ls	30.0	30	\$ 545.00	\$ 16,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,350
60	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					130		\$53,725		\$ 81,549		\$ -		\$ 547,000	\$682,274
<b>2.5 - Install BP Pass-thru Line &amp; Tower North of 300 Area</b>														
Includes - Meet w/BP for constructability review & tie-in connection process; lay-out work; survey area; clear & grub area; drill 3'dia x 8'-deep holes for stanchion legs; install sono tubes, rebar, fill w/concrete, & place 4-j-bolt leg fasteners in ea pier; pre-fab new quad support stanchion for Dead End Pass Thru & 90 deg turn to the west at site; install new Dead End Pass Thru Stanchion; install 4 new 80' poles for west leg tie-in tying into BP system; install wire; & support BP for final tie-in to their system.														
61	Lineman Crew #1- Incl mobe to area; lay-out work; & survey area for pole installation.	1	Ls	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
62	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #2**  
**SUBJECT: 2.0 Relocate 351 Substation**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Relocate Portions of 351 Substation West of Stevens Dr

Estimate No : 1004-Elect-Opt#2  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
63	Estimate Quad Dead End Stanchion - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 35,000	\$ 35,000	\$ 35,000
64	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-75' poles to be prepared for placing hardware config (single circuit) for elect tie in to existing BP sys.	2	Ea	5.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
65	Hardware - Incl cross arm, attachment bolts, arrestors, & misc hardware - Est 20' x4"x6" cross arm 3 wire set-up.	2	Ea	0.0	0	\$ -	\$ -	\$ 1,200	\$ 2,400	\$ -	\$ -	\$ -	\$ -	\$ 2,400
66	Poles - 75' Class 2 poles	4	Ea	0.0	0	\$ -	\$ -	\$ 1,567	\$ 6,268	\$ -	\$ -	\$ -	\$ -	\$ 6,268
67	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 4-75' poles to be placed.	4.0	Ea	8.0	32	\$ 501.00	\$ 16,032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,032
68	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 350	\$ 350	\$ -	\$ -	\$ -	\$ -	\$ 350
69	Lineman Crew - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 350' of wire to be placed.	350	Lf	0.06	20	\$ 442.00	\$ 8,840	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,840
70	Wire - Est 350KCML x 3/c per circuit & misc items - Est distance approx 350Lf - 350 x 3-lines ea cir x 3 sys = 1050Lf	1,050	Lf	0.0	0	\$ -	\$ -	\$ 2.86	\$ 2,999	\$ -	\$ -	\$ -	\$ -	\$ 2,998.80
71	Lineman Crew #4 - Support BP Tie-ins - Allowance for performing tie-in; & completing system test & approval.	1	Ls	30.0	30	\$ 545.00	\$ 16,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,350
72	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					102		\$49,682		\$12,766		\$0		\$35,000	\$97,448
<b>2.6 - Install North End Power Feed Circuits L6, L4, &amp; L1</b>														
Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; perform tie-ins; & test service. Assume all D&D activities on existing system is captured in other budgets.														
73	Lineman Crew - Crew #1 - Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ea	5.0	5	\$ 423.00	\$ 2,115	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,115
74	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #2**  
**SUBJECT: 2.0 Relocate 351 Substation**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Relocate Portions of 351 Substation West of Stevens Dr

Estimate No : 1004-Elect-Opt#2  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
75	Lineman Crew #1- Incl placing hardware on poles. Est 3-60' poles to be prepared for setting w/STD hardware config.	3	Ea	5.0	15	\$ 423.00	\$ 6,345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,345
76	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms = 2 x 3 circuits = 6 per pole x 3 poles = 18	18	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 3,557	\$ -	\$ -	\$ -	\$ -	\$ 3,557
77	Poles - 60' Class 2 poles	3	Ea	0.0	0	\$ -	\$ -	\$ 1,254	\$ 3,761	\$ -	\$ -	\$ -	\$ -	\$ 3,761
78	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-60' poles to be prepared for setting NON-STD hardware config (triple-circuit) for elect tie in to existing sys.	2	Ea	20.0	40	\$ 423.00	\$ 16,920	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,920
79	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms = 2 x 3 circuits = 6 per pole x 2 poles = 12	12	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 3,648	\$ -	\$ -	\$ -	\$ -	\$ 3,648
80	Poles - 60' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,254	\$ 2,507	\$ -	\$ -	\$ -	\$ -	\$ 2,507
81	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 5-60' std equipped poles to be placed.	5.0	Ea	6.7	33.5	\$ 501.00	\$ 16,784	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,784
82	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
83	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 800' x 3 x 3 sys = 7200Lf of wire to be placed.	7,200	Lf	0.004	29	\$ 442.00	\$ 12,730	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,730
84	Wire - Est 397.5 & 4/0 type x 3/c per circuit & misc items - Est distance approx 800 Lf - 800 x 3-lines ea cir x 3 sys = 7,200Lf	7,200	Lf	0.0	0	\$ -	\$ -	\$ 1.83	\$ 13,176	\$ -	\$ -	\$ -	\$ -	\$ 13,176
85	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
86	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
	<b>Subtotal</b>				132		\$60,343		\$ 27,648		\$ -		\$ -	\$87,991
	<b>2.7 - Install Power Feed Bridge Over 351 to Circuits L6, L4, &amp; L1</b>													
Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; perform tie-ins; & test service. Assume all D&D activities on existing system is captured in other budgets.														

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #2**  
**SUBJECT: 2.0 Relocate 351 Substation**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Relocate Portions of 351 Substation West of Stevens Dr

Estimate No : 1004-Elect-Opt#2  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
87	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ls	5.0	5	\$ 423.00	\$ 2,115	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,115
88	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
89	Lineman Crew #1- Incl placing hardware on poles. Est 3-45' poles to be prepared for setting w/STD hardware config.	3	Ea	5.0	15	\$ 423.00	\$ 6,345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,345
90	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 3 circuits per pole = 6 per pole x 3 poles = 18	18	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 3,557	\$ -	\$ -	\$ -	\$ -	\$ 3,557
91	Poles - 45' Class #2 poles	3	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 2,820	\$ -	\$ -	\$ -	\$ -	\$ 2,820
92	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 3-45' std equipped poles to be placed.	3.0	Ea	5.0	15	\$ 501.00	\$ 7,515	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,515
93	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
94	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 500' x 3 lines x 3 sys = 4500Lf of wire to be placed.	4,500	Lf	0.004	18	\$ 442.00	\$ 7,956	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,956
95	Wire - Est 397.5 & 4/0 type x 3/c per circuit & misc items - Est distance approx 500Lf - 500 x 3-lines ea cir x 3 sys = 4500Lf	4,500	Lf	0.0	0	\$ -	\$ -	\$ 1.83	\$ 8,235	\$ -	\$ -	\$ -	\$ -	\$ 8,235.00
96	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
97	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					63		\$29,381		\$ 15,612		\$ -		\$ -	\$44,993
<b>2.8 - Install Bio-Pump Feed Service</b>														
Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; pull existing wire from existing duct bank/s; install new wire in duct bank/s; perform tie-ins; & test service.														
98	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ea	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
99	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250



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ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #2**  
**SUBJECT: 2.0 Relocate 351 Substation**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Relocate Portions of 351 Substation West of Stevens Dr

Estimate No : 1004-Elect-Opt#2  
Date : 04/18/07  
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Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
100	Lineman Crew #1- Incl placing hardware on poles. Est 2-45' poles to be prepared for setting w/STD hardware config.	2	Ea	5.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
101	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 1,581	\$ -	\$ -	\$ -	\$ -	\$ 1,581
102	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
103	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
104	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 2,432	\$ -	\$ -	\$ -	\$ -	\$ 2,432
105	Fuse Cut-Outs - Incl pole mount pull-dwn swt, & mounting items - Est 1 per tie-in pole x 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
106	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
107	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 4-45' poles to be placed.	4.0	Ea	5.0	20	\$ 501.00	\$ 10,020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,020
108	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
109	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 600' x 3 x 3 sys = 3600Lf of wire to be placed.	3,600	Lf	0.004	14	\$ 442.00	\$ 6,365	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,365
110	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 600 Lf - 600 x 2-lines ea cir x 2 sys = 3,600Lf	3,600	Lf	0.0	0	\$ -	\$ -	\$ 1.47	\$ 5,288	\$ -	\$ -	\$ -	\$ -	\$ 5,288.40
111	Lineman Crew #1- Installing 13.8 Transformer & Vault - Incl digging hole for vault; placing precaste concrete vault; setting excessed transformer on vault; replacing existing transformer fluid w/correct oil; & checking/testing transformer.	1	Ls	20.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
112	Transformer Vault & Transformer - Est vault excavation; place compacted gravel in bottom; install vault, grd rod/s, lid, & transformer; & replace transformer cooling fluid. Assume transformer existing at site & no new purchase required.	1	Ls	0.0	0	\$ -	\$ -	\$ 8,500	\$ 8,500	\$ -	\$ -	\$ -	\$ -	\$ 8,500

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #2**  
**SUBJECT: 2.0 Relocate 351 Substation**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Relocate Portions of 351 Substation West of Stevens Dr

Estimate No : 1004-Elect-Opt#2  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
113	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	30.0	30	\$ 545.00	\$ 16,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,350
114	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
115	Electrician Crew #5 - Est pulling existing wire from duct bank - Incl removing wire & placing in disposal cans. Est 400' of wire. Assume pulling 2 bundles of three wires.	2,400	Lf	0.014	33	\$ 335.00	\$ 11,176	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,176
116	Electrician Crew #5 - Est pulling new wire into existing duct bank - Incl installing wire & placing in disposal cans. Est 400' of wire x 3 x 2 sys = 2400Lf. Assume pulling in 2 bundles of three wires.	2,400	Lf	0.014	33	\$ 335.00	\$ 11,176	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,176
117	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 400Lf - 400 x 3-lines ea cir x 2 sys = 2,400Lf	2,400	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 72,000	\$ -	\$ -	\$ -	\$ -	\$ 72,000
118	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
<b>Subtotal</b>					191		\$80,466		\$97,122		\$0		\$0	\$177,588
<b>2.9 - Install 325 Secondary Feed Service</b>														
Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; pull existing wire from existing duct bank/s; install new wire in duct bank/s; perform tie-ins; & test service.														
119	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ea	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
120	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
121	Lineman Crew #1- Incl placing hardware on poles. Est 2-45' poles to be prepared for setting w/STD hardware config.	2	Ea	5.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
122	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 1,581	\$ -	\$ -	\$ -	\$ -	\$ 1,581
123	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
124	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #2**  
**SUBJECT: 2.0 Relocate 351 Substation**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Relocate Portions of 351 Substation West of Stevens Dr

Estimate No : 1004-Elect-Opt#2  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
125	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 2,432	\$ -	\$ -	\$ -	\$ -	\$ 2,432
126	Fuse Cut-Out - Incl pole mount installation hardware- Est 1 per tie-in pole x 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
127	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
128	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 4-45' std equipped poles to be placed.	4.0	Ea	5.0	20	\$ 501.00	\$ 10,020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,020
129	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
130	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 450' x 3 = 1350Lf of wire to be placed.	1,350	Lf	0.004	5	\$ 442.00	\$ 2,387	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,387
131	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 450 Lf - 450 x 3-lines x 1 sys = 1,350Lf	1,350	Lf	0.0	0	\$ -	\$ -	\$ 1.47	\$ 1,983	\$ -	\$ -	\$ -	\$ -	\$ 1,983
132	Lineman Crew #1- Installing 13.8 Transformer & Vault - Incl digging hole for vault; placing precaste concrete vault; setting excessed transformer on vault; replacing existing transformer fluid w/correct oil; & checking/testing transformer.	1	Ls	20.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
133	Transformer Vault & Transformer - Est vault excavation; place compacted gravel in bottom; install vault, grd rod/s, lid, & transformer; & replace transformer cooling fluid. Assume transformer is existing at site & no new purchase required.	1	Ls	0.0	0	\$ -	\$ -	\$ 8,500	\$ 8,500	\$ -	\$ -	\$ -	\$ -	\$ 8,500
134	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	30.0	30	\$ 545.00	\$ 16,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,350
135	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
136	Electrician Crew #5 - Est pulling existing wire from duct bank - Incl removing wire & placing in disposal cans. Est 400' of wire. Assume pulling 2 bundles of three wires.	2	Ea	10.0	20	\$ 335.00	\$ 6,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,700

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #2**  
**SUBJECT: 2.0 Relocate 351 Substation**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Relocate Portions of 351 Substation West of Stevens Dr

Estimate No : 1004-Elect-Opt#2  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
137	Electrician Crew #5 - Est pulling new wire into existing duct bank - Incl installing wire & placing in disposal cans. Est 300' of wire x 3 x 2 sys = 1,800Lf. Assume pulling in 2 bundles of three wires.	2	Ea	10.0	20	\$ 335.00	\$ 6,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,700
138	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 300Lf - 300 x 3-lines ea cir x 2 sys = 1,800Lf	1,800	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 54,000	\$ -	\$ -	\$ -	\$ -	\$ 54,000
139	Electrician Crew #6 - Install new duct bank from north west corner of bldg to center of west side. Incl excavating; placing 2-4" PVC elect conduit lines & spacers; pour concrete around conduit; & backfill w/compaction. Est 240' of new duct bank	240	Lf	0.17	40	\$ 358.00	\$ 14,320	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,320
140	PVC Elect Conduit 2-4" Sch 40 Lines w/Spacers - incl conduit; pour concrete around conduit; & backfill w/compaction. Est 240' of new duct bank	240	Lf	0.0	0	\$ -	\$ -	\$ 22.62	\$ 5,429	\$ -	\$ -	\$ -	\$ -	\$ 5,429
141	Electrician Crew #5 - Est pulling new wire into new duct bank - Est 240' of wire x 3 x 1 sys = 720Lf. Assume pulling in 1 bundle of three wires.	720	Lf	0.014	10	\$ 335.00	\$ 3,353	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,353
142	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 240Lf - 240 x 3-lines ea cir x 1 sys = 720Lf	720	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 21,600	\$ -	\$ -	\$ -	\$ -	\$ 21,600
143	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
	<b>Subtotal</b>				205		\$85,209		\$102,845		\$0		\$0	\$188,055
	<b>2.10 - Install West Side Secondary Feed Service</b>													
	Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; perform tie-ins; & test service.													
144	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ls	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
145	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
146	Lineman Crew #1- Incl placing hardware on poles. Est 3-45' poles to be prepared for setting w/STD hardware config.	3	Ea	5.0	15	\$ 423.00	\$ 6,345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,345
147	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 3 poles = 12	12	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 2,371	\$ -	\$ -	\$ -	\$ -	\$ 2,371

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #2**  
**SUBJECT: 2.0 Relocate 351 Substation**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Relocate Portions of 351 Substation West of Stevens Dr

Estimate No : 1004-Elect-Opt#2  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
148	Poles - 45' Class 2 poles	3	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 2,820	\$ -	\$ -	\$ -	\$ -	\$ 2,820
149	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
150	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 2,432	\$ -	\$ -	\$ -	\$ -	\$ 2,432
151	Fuse Cut-Out - Incl pole mount installation hardware- Est 1 per tie-in pole x 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
152	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
153	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 5-45' std equipped poles to be placed.	5.0	Ea	5.0	25	\$ 501.00	\$ 12,525	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,525
154	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
155	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 3600' of wire to be placed.	3,600	Lf	0.004	14	\$ 442.00	\$ 6,365	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,365
156	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 600 Lf - 600 x 3-lines ea cir x 2 sys = 3,600Lf	3,600	Lf	0.0	0	\$ -	\$ -	\$ 1.47	\$ 5,288	\$ -	\$ -	\$ -	\$ -	\$ 5,288.40
157	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	20.0	20	\$ 545.00	\$ 10,900	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,900
158	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					104		\$48,825		\$18,102		\$0		\$0	\$66,927
<b>2.11 - Fire Suppression Systems</b>														
- Currently 300 Area will NOT require changes or additions to it's existing fire suppression systems to cover electrical changes. This is due to transformers purchased or re-worked will be filled with approved "High Flash Point" type mineral oil, and other equipment purchased will be classified as "Out-Door Rated" requiring no fire protection. Therefore no cost will be added to this Option for Fire Protection.														
159	300 Area Electrical Equipment Fire Protection Costs - There will be no costs for fire protection at this time and current requirements are meet according to the Flour Hanford Fire Marshall.	0	Per	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #2**  
**SUBJECT: 2.0 Relocate 351 Substation**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Relocate Portions of 351 Substation West of Stevens Dr

Estimate No : 1004-Elect-Opt#2  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
	<b>Subtotal</b>				0		\$ -		\$ -		\$ -		\$ -	\$ -
<b>2.12 - Clean Up Area, Demobe, &amp; Close-out Project</b>														
Includes - Cleaning up area; demobe equipment; & close-out proj at site.														
160	Engineer - Close-out various items, incl paper wk, & meet w/WCH & Flour Hanford for site close-out.	1	Per	20.0	20	\$ 69.88	\$ 1,398	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,398
161	Superintendent - Close-out various items, incl paper wk, & meet w/WCH & Flour Hanford for site close-out.	1	Per	20.0	20	\$ 59.53	\$ 1,191	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,191
162	Lineman Foreman - Support Demobe activities - Est 5hrs ea site	1	Crft	20.0	20	\$ 61.04	\$ 1,221	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,221
163	Lineman - 4 man crew - Demobe - Est 5hrs ea site	4	Crft	20.0	80	\$ 55.79	\$ 4,463	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,463
164	Lineman Bucket Truck - w/Man Bucket Boom, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295
165	Lineman Pole Auger Truck - w/Man Boom, Pole Auger, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295
166	Lineman Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400
167	Truck Tractor - Misc Mod, GVW >60000 Lbs, 6x4 / 400 Hp, Diesel, Max GVW 75000, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 50.82	\$ 254	\$ -	\$ -	\$ 254
168	Float Trailer High - Misc Model, 40' Lg, 8 tires, Flatbed, 2 axle / 40 ton, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 8.18	\$ 41	\$ -	\$ -	\$ 41
169	Electrician Foreman - Support Demobe activities	1	Crft	10.0	10	\$ 53.75	\$ 538	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 538
170	Electrician - Crew of 4 - Support Demobe activities	4	Crft	5.0	20	\$ 50.34	\$ 1,007	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,007
171	Electrician Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 Trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400
172	Operator - Support equip removal	1	Ea	10.0	10	\$ 38.94	\$ 389	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 389
173	Tractor Loader Backhoe - Case 580M Series-2, 4WD, Fixed, Diesel, Dig Depth 14-15', Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 23.56	\$ 118	\$ -	\$ -	\$ 118
174	Labor - Support mat'l deliveries	3	Ea	20.0	60	\$ 32.91	\$ 1,975	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,975
175	Fuel Truck - On-Highway Tanker - Misc Mod, 250 Hp, 4000 Gal, 14000 Lbs, 4x2, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 120	\$ -	\$ -	\$ 120

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #2**  
**SUBJECT: 2.0 Relocate 351 Substation**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Relocate Portions of 351 Substation West of Stevens Dr

Estimate No : 1004-Elect-Opt#2  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
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Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
176	Generator - Misc Mod, 10000 Watts, 16 Hp, Diesel, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 9.02	\$ 27	\$ -	\$ -	\$ 27
177	Misc Sml Equip - Allowance for sml compactors, wire pullers, etc	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 45.00	\$ 135	\$ -	\$ -	\$ 135
178	Office Trailer - Field, Enclosed 8'w x 32'lg - Yr/04 - \$ Allowance for disconnect & deliver back to Vendor	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 750	\$ 750	\$ -	\$ -	\$ 750
179	Materials for Mobe support - Allowance	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
	<b>Subtotal</b>				240		\$12,181		\$ 500		\$ 2,835		\$ -	\$15,516
	<b>Total All Activity Segments</b>				3,655		568,492		361,695		85,332		585,975	1,601,493





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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #3**  
**SUBJECT: 2.0 Feed From Richland & 400 Area**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Route Power From 400 Area To 300 Area North End

Estimate No : 1004-Elect-Opt#3  
Date : 04/24/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
<b>2.1 - Perform Constructability Discussions &amp; Permitting Process</b>														
Includes activities such as: SubK perform constructability reviews for each system segment with approval organizations (Flour Hanford, PNNL, & DOE, ; SubK perform construction start-up approval documentation & work packages; & develop procurement contracts.														
1	SubK Meetings w/WCH, Flour Hanford, Others & Discuss Constructability Activities - Incl initial in-house review, develop schedule, procurements, etc ; meet w/WCH & FH for discussing scope; prepare/review construction permitting docs. - Est 3 Design/Mgr personnel x 3wks & mat'l allowance.	3	Per	120.0	360	\$ 69.88	\$ 25,157	\$ 350	\$ 1,050	\$ -	\$ -	\$ -	\$ -	\$ 26,207
<b>Subtotal</b>					360		\$25,157		\$ 1,050		\$ -		\$ -	\$26,207
<b>2.2 - Mobe Site</b>														
Includes personnel training, set up equipment, layout and survey area, & prepare for construction activities. Est majority of equipment owned by SubK w/other pcs available in surrounding area with in 100 miles.														
2	Engineer - Out line mat'l take-offs, support procurements, dvlp Work Pkgs, & meet w/WCH & Flour Hanford for start-up.	1	Per	40.0	40	\$ 69.88	\$ 2,795	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,795
3	Superintendent - Support mat'l take-offs, procurements, dvlp Work Pkgs, & meet w/WCH & Flour Hanford for start-up. Est 40/hrs	1	Per	40.0	40	\$ 59.53	\$ 2,381	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,381
4	Surveyors - Used Fid Support Eng rate - 2 man crew 40hrs	2	Ea	40.0	80	\$ 59.14	\$ 4,731	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,731
5	Training Budget - Estimated amount for Subcontractor training expenses. Allowance - \$250 per person	12	Ea	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250.00	\$ 3,000	\$ 3,000
6	Training Labor - Estimated 8hrs per person to go thru site training. See Training wk shts for Labor costs.	1	Ls	0.0	1	\$ 6,451	\$ 6,451	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,451
7	Lineman Foreman - Support Mobe activities	1	Crft	20.0	20	\$ 61.04	\$ 1,221	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,221
8	Lineman - 4 man crew - Mobe	4	Crft	20.0	80	\$ 55.79	\$ 4,463	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,463
9	Lineman Bucket Truck - w/Man Bucket Boom, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295
10	Lineman Pole Auger Truck - w/Man Boom, Pole Auger, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295
11	Lineman Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #3**  
**SUBJECT: 2.0 Feed From Richland & 400 Area**  
 \* Rework Power Feeds At 5 Loc. Inside 300 Area  
 \* Route Power From SHC SubSt. To 300 Area South  
 \* Route Power From 400 Area To 300 Area North End

Estimate No : 1004-Elect-Opt#3  
Date : 04/24/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
12	Truck Tractor - Misc Mod, GVW >60000 Lbs, 6x4 / 400 Hp, Diesel, Max GVW 75000, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 50.82	\$ 254	\$ -	\$ -	\$ 254
13	Float Trailer High - Misc Model, 40' Lg, 8 tires, Flatbed, 2 axle / 40 ton, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 8.18	\$ 41	\$ -	\$ -	\$ 41
14	Electrician Foreman - Support mat'l deliveries	1	Crft	20.0	20	\$ 53.75	\$ 1,075	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,075
15	Electrician - Support mat'l deliveries	2	Crft	20.0	40	\$ 50.34	\$ 2,014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,014
16	Electrician Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 Trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400
17	Operator - Support equip & mat'l deliveries	1	Ea	20.0	20	\$ 38.94	\$ 779	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 779
18	Tractor Loader Backhoe - Case 580M Series-2, 4WD, Fixed, Diesel, Dig Depth 14-15', Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 23.56	\$ 118	\$ -	\$ -	\$ 118
19	Labor - Support mat'l deliveries	3	Ea	20.0	60	\$ 32.91	\$ 1,975	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,975
20	Fuel Truck - On-Highway Tanker - Misc Mod, 250 Hp, 4000 Gal, 14000 Lbs, 4x2, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 120	\$ -	\$ -	\$ 120
21	Generator - Misc Mod, 10000 Watts, 16 Hp, Diesel, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 9.02	\$ 27	\$ -	\$ -	\$ 27
22	Misc Sml Equip - Allowance for sml compactors, wire pullers, etc	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 45.00	\$ 135	\$ -	\$ -	\$ 135
23	Office Trailer - Field, Enclosed 8'w x 32'l g - Yr/04 - \$ Allowance for delivery & set-up	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 1,500	\$ 1,500	\$ -	\$ -	\$ 1,500
24	Materials for Mobe support - Allowance	1	Ls	0.0	0	\$ -	\$ -	\$ 2,000	\$ 2,000	\$ -	\$ -	\$ -	\$ -	\$ 2,000
<b>Subtotal</b>					401		\$27,885		\$ 2,000		\$ 3,585		\$ 3,000	\$36,470
<b>2.3 - Project Support for Duration</b>														
Includes personnel, equipment, and rentals supporting the project for duration of construction schedule.														
25	SubK Engineer - Various needs during const activities - Incl wk pkgs, safety eval, & const oversight length of const sched.	141	Dys	3.0	422	\$ 69.88	\$ 29,475	\$ -	\$ -	\$ 47	\$ 6,565	\$ -	\$ -	\$ 36,040
26	SubK Superintendent - Duration of construction	141	Dys	10.0	1,406	\$ 59.53	\$ 83,699	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 83,699
27	Porta-Let Services - Est 2 single person units for duration of proj - \$20.32 per wk ea (incl rent, cleaning 1x per wk w/pumping) x 2 units = \$40.64/wk	35.2	Wks	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40.64	\$ 1,429	\$ 1,429

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #3**  
**SUBJECT: 2.0 Feed From Richland & 400 Area**  
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Estimate No : 1004-Elect-Opt#3  
Date : 04/24/07  
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Rev No : 0  
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Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
28	Const Trailer 32 x 8' - Incl office expense, supplies, trailer rental, lights & HVAC elect. - Support Subcontractor Mgmt, Supv, & Craft. Est \$50 rent + \$100 utilities = \$150 per week	35.2	Wks	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 150	\$ 5,273	\$ -	\$ -	\$ 5,273
29	Teamster -	141	Dys	5.0	703	\$ 38.42	\$ 27,009	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,009
30	Pickup Truck - 1/2 Ton, 4x2, 143 Hp, Conventional Cab, Gas, Yr/04 - Est 2 trucks x \$10.31/hr ea x 2 = \$20.62 - Est total days x 60%	844	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 20.62	\$ 17,395	\$ -	\$ -	\$ 17,395
31	Pickup Truck - 3/4 Ton, 4x4, 285 Hp, Conventional Cab, Gas, Yr/04 - Est 1 truck x \$18.49/hr - Est total days x 60%	844	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 36.98	\$ 31,196	\$ -	\$ -	\$ 31,196
32	Fuel Truck - On-Highway Tanker - Misc Mod, 250 Hp, 4000 Gal, 14000 Lbs, 4x2, Yr/04 - Est Stand-by Time to 80% of const hrs - Est total days x 20%	281	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 11,251	\$ -	\$ -	\$ 11,251
33	Lube / Mechanic Truck, 2 ton, 800 gal, On-Highway 250 HP, Diesel, Yr/04 - Est Stand-by Time to 80% of const hrs - Est total days x 20%	281	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 48.38	\$ 13,604	\$ -	\$ -	\$ 13,604
34	Misc Sml Equip - Allowance for sml compactors, wire pullers, etc - Est Stand-by Time to 60% of const hrs - Est total days x 40%	562	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 45.00	\$ 25,308	\$ -	\$ -	\$ 25,308
35	Generator - Misc Mod, 10000 Watts, 16 Hp, Diesel, Yr/04 - Est total days x 40%	562	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 9.02	\$ 5,073	\$ -	\$ -	\$ 5,073
36	Materials supporting activities - Allowance	1	Ls	0.0	0	\$ -	\$ -	\$ 2,500	\$ 2,500	\$ -	\$ -	\$ -	\$ -	\$ 2,500
	<b>Subtotal</b>				2,531		\$140,184		\$ 2,500		\$ 115,665		\$ 1,429	\$259,778
<b>2.4 - Sand Hill Crane Substation Power to South End of Triangle</b>														
Includes City of Richland performing all activities to the existing Sand Hill Crane such as: Lay-out work; install substation splitter system w/switches; install switch station mods; & test new system alterations. Hrs not shown in Project Support durations due to being accomplished by City of Richland & not other 300 Area utility installation SubK.														
37	Estimate Splitter System w/Stanchion Piping/Wire - Est 1 splitters w/1-switch - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,500	\$ 12,500	\$ 12,500
38	Estimate Switch Station Skid Mods - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,500	\$ 7,500	\$ 7,500

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ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #3**  
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Estimate No : 1004-Elect-Opt#3  
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				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
39	Estimate Duct Bank Installation - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors. Est running 1 duct bank w/2 - 4" sch 40 PVC conduits. This provides power feed to perimeter of Sub-Station. Est 300Lf x 1 sys = 300Lf	300	Lf	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100	\$ 30,000	\$ 30,000
40	Estimate Horz Line Boring Under Stevens Road East - Est placing 1- 5" dia casing 100' Lg for routing a 4" PVC conduit thru. Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	100	Lf	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45.12	\$ 4,512	\$ 4,512
41	Electrician Crew #6 - Est Installing Pull Box Both sides of Rd - Est excavation; compacted gravel bed; install box w/lid; grnd; & misc.	2	Ea	5.0	10	\$ 358.00	\$ 3,580	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,580
42	Pull Box Both sides of Rd - Est excavation; compacted gravel bed; install box w/lid; grnd; & misc.	2	Ea	0.0	0	\$ -	\$ -	\$ 850	\$ 1,700	\$ -	\$ -	\$ -	\$ -	\$ 1,700
43	Electrician Crew #5 - Incl pulling 4/0 wire inside SHC Sub-Station to perimeter Tie-in Point - Est 1 sys of 3 wire x 300Lf ea sys = 900Lf. Assume pulling in 1 bundle in conduit w/three wires.	1	EA	10.0	10	\$ 335.00	\$ 3,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,350
44	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 300Lf x 3-lines x 1 sys = 900Lf	900	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 27,000	\$ -	\$ -	\$ -	\$ -	\$ 27,000
45	Lineman Crew #4 - Support BP Tie-ins - Allowance for performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
46	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
<b>Subtotal</b>					30		\$12,380		\$ 28,950		\$ -		\$ 54,512	\$95,842
<b>2.5 - Install Over-head Lines to West Side Mini Sub-Station</b>														
Includes City of Richland performing activities such as: Lay-out work; survey ground; install hardware on poles; auger pole holes; install poles; install wire on poles; perform tie-ins; & test service. 1 line from Sand Hill Crane Sub-Station to demarcation point at mini sub-station. Line runs parallel to Stevens Dr. on west side of triangle. When line reaches GW Way road running diagonal to Stevens the cross over shall be accomplished by installing a transition pole down to duct-bank and pass under road then back up on transition pole continuing on overhead lines to mini sub-station w/auto-transformers. Hrs not shown in Project Support durations due to being accomplished by City of Richland & not other 300 Area utility installation SubK.														
47	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ls	10.0	10	\$ 423	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
48	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250

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49	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
50	Hardware - Incl cross arms, arrestors, transition hardware - Est 2- 6' arms x 1 circuit per pole = 4	4	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 1,216	\$ -	\$ -	\$ -	\$ -	\$ 1,216
51	Fuse Cut-Outs - Incl pole mount installation hardware - Est 1 per tie-in pole x 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
52	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
53	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 2-45' poles to be placed.	2	Ea	5.0	10	\$ 501	\$ 5,010	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,010
54	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
55	Lineman Crew #1- Incl placing hardware on poles. Est 1 pole every 150'; Est distance for west side over-head line @ 5280'; or 5280 / 150 = 35 poles to be prepared for setting w/STD hardware config.	35	Ea	5.0	175	\$ 501	\$ 87,675	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 87,675
56	Hardware - Incl cross arms, arrestors, transition hardware - Est 2- 6' arms x 1 circuit w/3 lines per pole x 35 poles = 70 cross-arms	70	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 21,280	\$ -	\$ -	\$ -	\$ -	\$ 21,280
57	Poles - 45' Class 2 poles	35	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 32,900	\$ -	\$ -	\$ -	\$ -	\$ 32,900
58	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 35 - 45' poles to be placed.	35	Ea	5.0	175	\$ 501	\$ 87,675	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 87,675
59	Estimate Horz Line Boring Under GW Way Diagonal Rd - Est placing a 5" dia casing 100' Lg for placing a 4" PVC conduit thru. Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	50	Lf	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45.12	\$ 2,256	\$ 2,256
60	Electrician Crew #6 - Estimate Connecting Transition Pole 4" RGS Conduit to Pull Box on both side of GW Way Rd. On other side of rd back into another pull box & into 4" RGS conduit back up a transition pole. Est 4" sch 40 PVC from pull box thru rd sleeve to far side pull box.	70	Lf	0.1	5	\$ 358.00	\$ 1,790	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,790
61	PVC Elect Conduit 1-4" Sch 40 Line w/Spacers - incl conduit; pour concrete as needed around conduit & pull box; & backfill w/compaction. Est 70' of conduit	70	Lf	0.0	0	\$ -	\$ -	\$ 15.83	\$ 1,108	\$ -	\$ -	\$ -	\$ -	\$ 1,108

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62	Electrician Crew #6 - Est Installing Pull Box Both sides of Rd - Est excavation; compacted gravel bed; install box w/lid; grnd; & misc.	2	Ea	5.0	10	\$ 358.00	\$ 3,580	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,580
63	Pull Box Both sides of Rd - Est excavation; compacted gravel bed; install box w/lid; grnd; & misc.	2	Ea	0.0	0	\$ -	\$ -	\$ 850	\$ 1,700	\$ -	\$ -	\$ -	\$ -	\$ 1,700
64	Electrician Crew #5 - Incl pulling 4/0 wire from pull box thru rd sleeve to pull box on other side of rd. Est 3 wire x 70Lf = 210Lf. Assume pulling in 1 bundle in conduit w/three wires.	1	Ea	5.0	5	\$ 335.00	\$ 1,675	\$ 850	\$ 850	\$ -	\$ -	\$ -	\$ -	\$ 2,525
65	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 70Lf x 3-lines = 210Lf	210	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 6,300	\$ -	\$ -	\$ -	\$ -	\$ 6,300
66	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
67	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
68	Lineman Crew #1- Incl placing hardware on transition pole. Est 1-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	1	Ea	10.0	10	\$ 423	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
69	Hardware - Incl cross arms, arrestors, transition hardware - Est 2- 6' arms x 1 circuit per pole = 2	2	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 608	\$ -	\$ -	\$ -	\$ -	\$ 608
70	Fuse Cut-Outs - Incl pole mount installation hardware - Est 1 per tie-in pole x 1 pole	1	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 1,155	\$ -	\$ -	\$ -	\$ -	\$ 1,155
71	Poles - 45' Class 2 poles	1	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 940	\$ -	\$ -	\$ -	\$ -	\$ 940
72	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 2-45' poles to be placed.	1	Ea	5.0	5	\$ 501	\$ 2,505	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,505
73	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
74	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Incl pulling 397.5 wire from south end of triangle to mini sub-station - Est 1 sys of 3 wire x 5280Lf = 15,840Lf.	15,840	Lf	0.004	63	\$ 442	\$ 28,005	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,005
75	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 5280 Lf x 3-lines ea cir = 15,840Lf	15,840	Lf	0.0	0	\$ -	\$ -	\$ 1.47	\$ 23,269	\$ -	\$ -	\$ -	\$ -	\$ 23,269
76	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
77	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					508		\$ 245,735		\$ 97,016		\$ -		\$ 2,256	\$ 345,007

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #3**  
**SUBJECT: 2.0 Feed From Richland & 400 Area**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Route Power From 400 Area To 300 Area North End

Estimate No : 1004-Elect-Opt#3  
Date : 04/24/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
	<b>2.6 - Install West Side Sub-Station</b>													
	Includes - Meet w/Richland City Engineers for constructability review & tie-in connection process; lay-out work; survey areas; clear & grub areas; remove soil & spread outside of perimeter areas; install substation grounding system; install gravel & compact; install 1 equipment vault & pad; install 1 - auto-transformers & regulator to step up voltage from Richland City Feed; install 1-leg splitter system w/switches; install switch station; & safety/security 8' high chain link fence; install access road w/50' x 24' wide w/6" compacted gravel & turn-in off other 300 Area site roads.													
78	Lineman Crew #1 - Performing Other Activities - Incl mobe to area; lay-out work; & survey area for pole installation.	1	Ls	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
79	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
80	Estimate Yard Portion - Est yard based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 42,500	\$ 42,500	\$ 42,500
81	Estimate Elect Richland City Tie-in w/Wire & Tubing to Transformer - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 37,500	\$ 37,500	\$ 37,500
82	Estimate Installation of Auto-Transformer - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 630,000	\$ 630,000	\$ 630,000
83	Estimate Splitter System w/Stanchion Piping/Wire - Est 3 splitters w/switches - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 50,000	\$ 50,000
84	Estimate Switch Station Skid w/Out-Door Rated Equip - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 81,000	\$ 81,000	\$ 81,000
85	Estimate Road Extension & Turn-in - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,500	\$ 12,500	\$ 12,500
86	Electrician Crew #6 - Install new duct bank from Substation to Stevens Drive Connection point. Incl excavating; placing 2-4" PVC elect conduit lines & spacers; pour concrete around conduit; & backfill w/compaction. Est 50' of new duct bank	50	Lf	0.17	8	\$ 358.00	\$ 2,983	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,983
87	PVC Elect Conduit 2-4" Sch 40 Lines w/Spacers - Incl conduit; pour concrete around conduit; & backfill w/compaction. Est 50' of new duct bank	50	Lf	0.0	0	\$ -	\$ -	\$ 22.62	\$ 1,131	\$ -	\$ -	\$ -	\$ -	\$ 1,131

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #3**  
**SUBJECT: 2.0 Feed From Richland & 400 Area**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Route Power From 400 Area To 300 Area North End

Estimate No : 1004-Elect-Opt#3  
Date : 04/24/07  
By : Dan Jakubek  
Rev No : 0  
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Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
88	Electrician Crew #5 - Est pulling new wire into new duct bank - Est 50' of wire x 3 x 1 sys = 150Lf. Assume pulling in bundles of three wires.	50	Lf	0.07	3.5	\$ 335.00	\$ 1,173	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,173
89	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 50Lf - 50 x 3-lines ea cir x 1 sys = 150Lf	150	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 4,500	\$ -	\$ -	\$ -	\$ -	\$ 4,500
99	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
	<b>Subtotal</b>				22		\$ 8,386		\$ 6,381		\$ -		\$ 853,500	\$ 868,267
	<b>2.7 - Install West Side Aerial Lines to Existing 300 Area Sys</b>													
	Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; perform tie-ins; & test service.													
100	Lineman Crew #1- Incl placing hardware on transition pole on west side sub-st to existing west side 300 Ara power lines. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
101	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 1 circuit = 2 arms per pole x 2 poles = 4	4	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 1,216	\$ -	\$ -	\$ -	\$ -	\$ 1,216
102	Fuse Cut-Outs - Incl pole mount pull-dwn swt, & mounting items - Est 1 per sys	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
103	Poles - 45' Class #2 pole	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
104	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 2-45' poles to be placed.	2.0	Hrs	5.0	10	\$ 501.00	\$ 5,010	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,010
105	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
106	Lineman Crew #1- Incl placing hardware on poles. Est 10-45' poles to be prepared for setting w/STD hardware config.	10	Ea	5.0	50	\$ 423.00	\$ 21,150	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,150
107	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 1 circuit per pole = 2 per pole x 10 poles = 20	20	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 3,952	\$ -	\$ -	\$ -	\$ -	\$ 3,952
108	Poles - 45' Class 2 poles	10	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 9,401	\$ -	\$ -	\$ -	\$ -	\$ 9,401



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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #3**  
**SUBJECT: 2.0 Feed From Richland & 400 Area**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Route Power From 400 Area To 300 Area North End

Estimate No : 1004-Elect-Opt#3  
Date : 04/24/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
109	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles.	10	Ea	5.0	50	\$ 501	\$ 25,050	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,050
110	Electrician Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Incl pulling 397.5 wire from west side sub-station to existing 300 area tie-in lines - Est 1800' 1sys of 3 wire x 5400Lf	5,400	Lf	0.002	10	\$ 442	\$ 4,425	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,425
111	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 1800Lf x 3-lines ea cir = 5400Lf	5,400	Lf	0.0	0	\$ -	\$0	\$ 1.47	\$ 7,933	\$ -	\$ -	\$ -	\$ -	\$ 7,933
112	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Hrs	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
113	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					150		\$ 69,545		\$ 27,442		\$ -		\$ -	\$ 96,987
<b>2.8 - Install 400 Area Power Feed</b>														
Includes - Meet w/PNNL for constructability review & tie-in connection process; lay-out work; survey areas inside 400 Area for installing aerial poles; & install 13.8KV main distribution breaker, sectionalizing switch, & 1,300 Lf of 397.5 aerial line on 45' Class #2 poles; then use existing 400 Area power feed lines from 351 to routing power back to the north west corner of 300 Area; at north west corner of 300 Area install a 40' x 40' switch yard w/8' high chain link fence 1-main distribution breaker, grounding system; electrical vault, 4-conn bus breaker station (for routing power to L6, L4, & L1), & sml control rm; from sml switch yard install 50' of 4-4" sch 40 PVC conduit duct bank to a transition pole w/3-switches to connect up L6, L4, & L1; from transition pole install an additional 300' of aerial lines & tie into L6, L4, & L1 lines.														
114	Lineman Crew #1- Incl mobe to area; lay-out work; & survey area for pole installation.	1	Ls	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
115	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
116	Estimate Elect Tie-in at 400 Area - Incl 13.8KV distribution breaker, & sectionalizing switch w/wire, tubing, & conn - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,000	\$ 40,000	\$ 40,000
117	Lineman Crew #1- Incl placing hardware on std poles. Est 9-45' poles to be prepared for setting std hardware (sngl circuit).	9	Ea	5.0	45	\$ 423.00	\$ 19,035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,035
118	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 1 circuit per pole = 2 arms per pole x 9 pole = 18	18	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 5,472	\$ -	\$ -	\$ -	\$ -	\$ 5,472
119	Fuse Cut-Outs - Incl installation of hardware items - Est 1 at ea end	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #3**  
**SUBJECT: 2.0 Feed From Richland & 400 Area**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Route Power From 400 Area To 300 Area North End

Estimate No : 1004-Elect-Opt#3  
Date : 04/24/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
120	Poles - 45' Class #2 pole	9	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 8,461	\$ -	\$ -	\$ -	\$ -	\$ 8,461
121	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 9-45' std equipped pole to be placed.	9	Ea	5.0	45	\$ 501.00	\$ 22,545	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,545
122	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 1300' x 3 = 3900Lf of wire to be placed.	3,900	Lf	0.004	16	\$ 442.00	\$ 6,895	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,895
123	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 1,300Lf - 1,300 x 3-lines ea cir x 1 sys = 3,900Lf	3,900	Lf	0.0	0	\$ -	\$ -	\$ 1.47	\$ 5,729	\$ -	\$ -	\$ -	\$ -	\$ 5,729
124	Lineman Crew - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	30.0	30	\$ 545.00	\$ 16,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,350
125	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
126	Estimate Yard Portion - Est yard at 50' x 50' & pricing based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,250	\$ 21,250	\$ 21,250
127	Estimate Elect Tie-in at 400 Area - Incl 13.8 Main Breaker, 4 Circ Bus w/Switches, Switch Station Skid w/Out-Door Rated Equipwire, & conn - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 74,500	\$ 74,500	\$ 74,500
128	Electrical Vault for placing Main Breaker - Est vault excavation; place compacted gravel in bottom; install vault, grd rod/s, lid, & backfill.	1	Ls	0.0	0	\$ -	\$ -	\$ 8,500	\$ 8,500	\$ -	\$ -	\$ -	\$ -	\$ 8,500
129	Electrician Crew #6 - Install new duct bank. Incl excavating; placing 2-4" PVC elect conduit lines & spacers; pour concrete around conduit; & backfill w/compaction. Est 50' of new duct bank	50	Lf	0.17	8	\$ 358.00	\$ 2,983	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,983
130	PVC Elect Conduit 2-4" Sch 40 Lines w/Spacers - incl conduit; pour concrete around conduit; & backfill w/compaction. Est 50' of new duct bank	50	Lf	0.0	0	\$ -	\$ -	\$ 22.62	\$ 1,131	\$ -	\$ -	\$ -	\$ -	\$ 1,131
131	Electrician Crew #5 - Est pulling new wire into new duct bank - Est 50' of wire x 3 x 3 sys = 450Lf. Assume pulling in bundles of three wires.	450.0	Hrs	0.023	10	\$ 335.00	\$ 3,517	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,517

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ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #3**  
**SUBJECT: 2.0 Feed From Richland & 400 Area**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
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Estimate No : 1004-Elect-Opt#3  
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Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
132	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 50Lf - 50 x 3-lines ea cir x 3 sys = 450Lf	450	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 13,500	\$ -	\$ -	\$ -	\$ -	\$ 13,500
	<b>Subtotal</b>				164		\$75,556		\$ 45,853		\$ -		\$ 135,750	\$257,159
<b>2.9 - Install BP Pass-thru Line &amp; Tower North of 300 Area</b>														
Includes - Meet w/BP for constructability review & tie-in connection process; lay-out work; survey area; clear & grub area; drill 3'dia x 8'-deep holes for stanchion legs; install sono tubes, rebar, fill w/concrete, & place 4-j-bolt leg fasteners in ea pier; pre-fab new quad support stanchion for Dead End Pass Thru & 90 deg turn to the west at site; install new Dead End Pass Thru Stanchion; install 4 new 80' poles for west leg tie-in tying into BP system; install wire; & support BP for final tie-in to their system.														
133	Lineman Crew #1- Incl mobe to area; lay-out work; & survey area for pole installation.	1	Ls	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
134	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
135	Estimate Quad Dead End Stanchion - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 35,000	\$ 35,000	\$ 35,000
136	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-75' poles to be prepared for placing hardware config (single circuit) for elect tie in to existing BP sys.	2	Ea	5.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
137	Hardware - Incl cross arm, attachment bolts, arrestors, & misc hardware - Est 20' x4"x6" cross arm 3 wire set-up.	2	Ea	0.0	0	\$ -	\$ -	\$ 1,200	\$ 2,400	\$ -	\$ -	\$ -	\$ -	\$ 2,400
138	Poles - 75' Class 2 poles	4	Ea	0.0	0	\$ -	\$ -	\$ 1,567	\$ 6,268	\$ -	\$ -	\$ -	\$ -	\$ 6,268
139	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 4-75' poles to be placed.	4	Ea	8.0	32	\$ 501.00	\$ 16,032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,032
140	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 350	\$ 350	\$ -	\$ -	\$ -	\$ -	\$ 350
141	Lineman Crew - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 250' of wire to be placed.	350	Lf	0.06	20	\$ 442.00	\$ 8,840	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,840
142	Wire - Est 350KCMIL x 3/c per circuit & misc items - Est distance approx 350Lf - 350 x 3-lines ea cir x 3 sys = 1050Lf	1,050	Lf	0.0	0	\$ -	\$ -	\$ 2.86	\$ 2,999	\$ -	\$ -	\$ -	\$ -	\$ 2,999
143	Lineman Crew #4 - Support BP Tie-ins - Allowance for performing tie-in; & completing system test & approval.	1	Ls	30.0	30	\$ 545.00	\$ 16,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,350

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RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

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				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
144	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
	<b>Subtotal</b>				102		\$49,682		\$12,766		\$0		\$35,000	\$97,448
	<b>2.10 - Install North End Power Feed Circuits L6, L4, &amp; L1</b>													
	Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; perform tie-ins; & test service. Assume all D&D activities on existing system is captured in other budgets.													
145	Lineman Crew - Crew #1 - Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ea	5.0	5	\$ 423.00	\$ 2,115	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,115
146	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
147	Lineman Crew #1- Incl placing hardware on poles. Est 3-60' poles to be prepared for setting w/STD hardware config.	3	Ea	5.0	15	\$ 423.00	\$ 6,345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,345
148	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms = 2 x 3 circuits = 6 per pole x 3 poles = 18	18	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 3,557	\$ -	\$ -	\$ -	\$ -	\$ 3,557
149	Poles - 60' Class 2 poles	3	Ea	0.0	0	\$ -	\$ -	\$ 1,254	\$ 3,761	\$ -	\$ -	\$ -	\$ -	\$ 3,761
150	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-60' poles to be prepared for setting NON-STD hardware config (triple-circuit) for elect tie in to existing sys.	2	Ea	20.0	40	\$ 423.00	\$ 16,920	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,920
151	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms = 2 x 3 circuits = 6 per pole x 2 poles = 12	12	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 3,648	\$ -	\$ -	\$ -	\$ -	\$ 3,648
152	Poles - 60' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,254	\$ 2,507	\$ -	\$ -	\$ -	\$ -	\$ 2,507
153	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 5-60' std equipped poles to be placed.	5.0	Ea	6.7	33.5	\$ 501.00	\$ 16,784	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,784
154	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
155	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 800' x 3 x 3 sys = 7200Lf of wire to be placed.	7,200	Lf	0.004	29	\$ 442.00	\$ 12,730	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,730
156	Wire - Est 397.5 & 4/0 type x 3/c per circuit & misc items - Est distance approx 800 Lf - 800 x 3-lines ea cir x 3 sys = 7,200Lf	7,200	Lf	0.0	0	\$ -	\$ -	\$ 1.83	\$ 13,176	\$ -	\$ -	\$ -	\$ -	\$ 13,176

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #3**  
**SUBJECT: 2.0 Feed From Richland & 400 Area**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Route Power From 400 Area To 300 Area North End

Estimate No : 1004-Elect-Opt#3  
Date : 04/24/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
157	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
158	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					132		\$ 60,343		\$ 27,648		\$ -		\$ -	\$ 87,991
<b>2.11 - Install Power Feed Bridge Over 351 to Circuits L6, L4, &amp; L1</b>														
Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; perform tie-ins; & test service. Assume all D&D activities on existing system is captured in other budgets.														
159	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ls	5.0	5	\$ 423.00	\$ 2,115	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,115
160	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
161	Lineman Crew #1- Incl placing hardware on poles. Est 3-45' poles to be prepared for setting w/STD hardware config.	3	Ea	5.0	15	\$ 423.00	\$ 6,345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,345
162	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 3 circuits per pole = 6 per pole x 3 poles = 18	18	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 3,557	\$ -	\$ -	\$ -	\$ -	\$ 3,557
163	Poles - 45' Class #2 poles	3	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 2,820	\$ -	\$ -	\$ -	\$ -	\$ 2,820
164	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 3-45' std equipped poles to be placed.	3.0	Ea	5.0	15	\$ 501.00	\$ 7,515	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,515
165	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
166	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 500' x 3 lines x 3 sys = 4500Lf of wire to be placed.	4,500	Lf	0.004	18	\$ 442.00	\$ 7,956	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,956
167	Wire - Est 397.5 & 4/0 type x 3/c per circuit & misc items - Est distance approx 500Lf - 500 x 3-lines ea cir x 3 sys = 4500Lf	4,500	Lf	0.0	0	\$ -	\$ -	\$ 1.83	\$ 8,235	\$ -	\$ -	\$ -	\$ -	\$ 8,235
168	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
169	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					63		\$29,381		\$ 15,612		\$ -		\$ -	\$44,993

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #3**  
**SUBJECT: 2.0 Feed From Richland & 400 Area**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Route Power From 400 Area To 300 Area North End

Estimate No : 1004-Elect-Opt#3  
Date : 04/24/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
<b>2.12 - Install Bio-Pump Feed Service</b>														
Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; pull existing wire from existing duct bank/s; install new wire in duct bank/s; perform tie-ins; & test service.														
170	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ea	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
171	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
172	Lineman Crew #1- Incl placing hardware on poles. Est 2-45' poles to be prepared for setting w/STD hardware config.	2	Ea	5.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
173	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 1,581	\$ -	\$ -	\$ -	\$ -	\$ 1,581
174	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
175	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
176	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 2,432	\$ -	\$ -	\$ -	\$ -	\$ 2,432
177	Fuse Cut-Outs - Incl pole mount pull-dwn swt, & mounting items - Est 1 per tie-in pole x 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
178	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
179	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 4-45' std equipped poles to be placed.	4.0	Ea	5.0	20	\$ 501.00	\$ 10,020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,020
180	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
181	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 600' x 3 = 1800Lf of wire to be placed.	3,600	Lf	0.004	14	\$ 442.00	\$ 6,365	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,365
182	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 600 Lf - 600 x 2-lines ea cir x 2 sys = 3,600Lf	3,600	Lf	0.0	0	\$ -	\$ -	\$ 1.47	\$ 5,288	\$ -	\$ -	\$ -	\$ -	\$ 5,288

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #3**  
**SUBJECT: 2.0 Feed From Richland & 400 Area**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Route Power From 400 Area To 300 Area North End

Estimate No : 1004-Elect-Opt#3  
Date : 04/24/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
183	Lineman Crew #1- Installing 13.8 Transformer & Vault - Incl digging hole for vault; placing precaste concrete vault; setting excessed transformer on vault; replacing existing transformer fluid w/correct oil; & checking/testing transformer. Est mat'l allowance	1	Ls	20.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
184	Transformer Vault & Transformer - Est vault excavation; place compacted gravel in bottom; install vault, grd rod/s, lid, & transformer; & replace transformer cooling fluid. Assume transformer is existing at site & no new purchase required.	1	Ls	0.0	0	\$ -	\$ -	\$ 8,500	\$ 8,500	\$ -	\$ -	\$ -	\$ -	\$ 8,500
185	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	30.0	30	\$ 545.00	\$ 16,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,350
186	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
187	Electrician Crew #5 - Est pulling existing wire from duct bank - Incl removing wire & placing in disposal cans. Est 400' of wire. Assume pulling 2 bundles of three wires.	2,400	Lf	0.014	33	\$ 335.00	\$ 11,176	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,176
188	Electrician Crew #5 - Est pulling new wire into existing duct bank - Incl installing wire & placing in disposal cans. Est 400' of wire x 3 x 2 sys = 2400Lf. Assume pulling in 2 bundles of three wires.	2,400	Lf	0.014	33	\$ 335.00	\$ 11,176	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,176
189	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 400Lf - 400 x 3-lines ea cir x 2 sys = 2,400Lf	2,400	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 72,000	\$ -	\$ -	\$ -	\$ -	\$ 72,000
190	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
	<b>Subtotal</b>				191		\$80,466	\$ 97,122	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 177,588
	<b>2.13 - Install 325 Secondary Feed Service</b>													
	Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; pull existing wire from existing duct bank/s; install new wire in duct bank/s; perform tie-ins; & test service.													
191	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ea	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
192	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #3**  
**SUBJECT: 2.0 Feed From Richland & 400 Area**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Route Power From 400 Area To 300 Area North End

Estimate No : 1004-Elect-Opt#3  
Date : 04/24/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
193	Lineman Crew #1- Incl placing hardware on poles. Est 2-45' poles to be prepared for setting w/STD hardware config.	2	Ea	5.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
194	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 1,581	\$ -	\$ -	\$ -	\$ -	\$ 1,581
195	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
196	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
197	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 2,432	\$ -	\$ -	\$ -	\$ -	\$ 2,432
198	Fuse Cut-Out - Incl pole mount installation hardware- Est 1 per tie-in pole x 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
199	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
200	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 4-45' std equipped poles to be placed.	4.0	Ea	5.0	20	\$ 501.00	\$ 10,020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,020
201	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
202	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 450' x 3 = 1350Lf of wire to be placed.	1,350	Lf	0.004	5	\$ 442.00	\$ 2,387	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,387
203	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 450 Lf - 450 x 3-lines x 1 sys = 1,350Lf	1,350	Lf	0.0	0	\$ -	\$ -	\$ 1.47	\$ 1,983	\$ -	\$ -	\$ -	\$ -	\$ 1,983
204	Lineman Crew #1- Installing 13.8 Transformer & Vault - Incl digging hole for vault; placing precaste concrete vault; setting excessed transformer on vault; replacing existing transformer fluid w/correct oil; & checking/testing transformer. Est mat'l allowance	1	Ls	20.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
205	Transformer Vault & Transformer - Est vault excavation; place compacted gravel in bottom; install vault, grd rod/s, lid, & transformer; & replace transformer cooling fluid. Assume transformer is existing at site & no new purchase required.	1	Ls	0.0	0	\$ -	\$ -	\$ 8,500	\$ 8,500	\$ -	\$ -	\$ -	\$ -	\$ 8,500



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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #3**  
**SUBJECT: 2.0 Feed From Richland & 400 Area**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Route Power From 400 Area To 300 Area North End

Estimate No : 1004-Elect-Opt#3  
Date : 04/24/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
206	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	30.0	30	\$ 545.00	\$ 16,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,350
207	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
208	Electrician Crew #5 - Est pulling existing wire from duct bank - Incl removing wire & placing in disposal cans. Est 400' of wire. Assume pulling 2 bundles of three wires.	2	Ea	10.0	20	\$ 335.00	\$ 6,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,700
209	Electrician Crew #5 - Est pulling new wire into existing duct bank - Incl installing wire & placing in disposal cans. Est 300' of wire x 3 x 2 sys = 1,800Lf. Assume pulling in 2 bundles of three wires.	2	Ea	10.0	20	\$ 335.00	\$ 6,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,700
210	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 300Lf - 300 x 3-lines ea cir x 2 sys = 1,800Lf	1,800	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 54,000	\$ -	\$ -	\$ -	\$ -	\$ 54,000
211	Electrician Crew #6 - Install new duct bank from north west corner of bldg to center of west side. Incl excavating; placing 2-4" PVC elect conduit lines & spacers; pour concrete around conduit; & backfill w/compaction. Est 240' of new duct bank	240	Lf	0.17	40	\$ 358.00	\$ 14,320	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,320
212	PVC Elect Conduit 2-4" Sch 40 Lines w/Spacers - incl conduit; pour concrete around conduit; & backfill w/compaction. Est 240' of new duct bank	240	Lf	0.0	0	\$ -	\$ -	\$ 22.62	\$ 5,429	\$ -	\$ -	\$ -	\$ -	\$ 5,429
213	Electrician Crew #5 - Est pulling new wire into new duct bank - Est 240' of wire x 3 x 1 sys = 720Lf. Assume pulling in 1 bundle of three wires.	720	Lf	0.014	10	\$ 335.00	\$ 3,353	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,353
214	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 240Lf - 240 x 3-lines ea cir x 1 sys = 720Lf	720	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 21,600	\$ -	\$ -	\$ -	\$ -	\$ 21,600
215	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
<b>Subtotal</b>					205		\$85,209		\$102,845		\$0		\$0	\$188,055
<b>2.14 - Install West Side Secondary Feed Service</b>														
Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; perform tie-ins; & test service.														
216	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ls	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #3**  
**SUBJECT: 2.0 Feed From Richland & 400 Area**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Route Power From 400 Area To 300 Area North End

Estimate No : 1004-Elect-Opt#3  
Date : 04/24/07  
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Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
217	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
218	Lineman Crew #1- Incl placing hardware on poles. Est 3-45' poles to be prepared for setting w/STD hardware config. Est	3	Ea	5.0	15	\$ 423.00	\$ 6,345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,345
219	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 3 poles = 12	12	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 2,371	\$ -	\$ -	\$ -	\$ -	\$ 2,371
220	Poles - 45' Class 2 poles	3	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 2,820	\$ -	\$ -	\$ -	\$ -	\$ 2,820
221	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
222	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 2,432	\$ -	\$ -	\$ -	\$ -	\$ 2,432
223	Fuse Cut-Out - Incl pole mount installation hardware- Est 1 per tie-in pole x 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
224	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
225	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 5-45' std equipped poles to be placed.	5.0	Ea	5.0	25	\$ 501.00	\$ 12,525	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,525
226	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
227	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 3600' of wire to be placed.	3,600	Lf	0.004	14	\$ 442.00	\$ 6,365	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,365
228	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 600 Lf - 600 x 3-lines ea cir x 2 sys = 3,600Lf	3,600	Lf	0.0	0	\$ -	\$ -	\$ 1.47	\$ 5,288	\$ -	\$ -	\$ -	\$ -	\$ 5,288.40
229	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	20.0	20	\$ 545.00	\$ 10,900	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,900
230	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
	<b>Subtotal</b>				104		\$48,825		\$18,102		\$0		\$0	\$66,927
	<b>2.15 - Fire Suppression Systems</b>													

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #3**  
**SUBJECT: 2.0 Feed From Richland & 400 Area**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Route Power From 400 Area To 300 Area North End

Estimate No : 1004-Elect-Opt#3  
Date : 04/24/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
- Currently Sand Hill Sub-Station & 400 Area will NOT require changes or additions to their Fire Suppression system, therefore no cost is placed in the estimate. - Also the 300 Area will NOT require changes or additions to it's existing fire suppression systems to cover electrical changes. This is due to transformers purchased or re-worked will be filled with approved "High Flash Point" type mineral oil, and other equipment purchased will be classified as "Out-Door Rated" requiring no fire protection. Therefore no cost will be added to this Option for Fire Protection.														
231	Sand Hill sub-Station Fire Protection Costs - There will be no costs for fire protection at this time and current requirements are met according to the City of Richland Fire Marshall.	0	Per	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
232	400 Area Fire Protection Costs - There will be no costs for fire protection at this time and current requirements are met according to the Flour Hanford Fire Marshall.	0	Per	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
233	300 Area Electrical Equipment Fire Protection Costs - There will be no costs for fire protection at this time and current requirements are met according to the Flour Hanford Fire Marshall.	0	Per	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal</b>					0		\$ -		\$ -		\$ -		\$ -	\$ -
<b>2.16 - Clean Up Area, Demobe, &amp; Close-out Project</b>														
Includes - Cleaning up area; demobe equipment; & close-out proj at site.														
234	Engineer - Close-out various items, incl paper wk, & meet w/WCH & Flour Hanford for site close-out.	1	Per	20.0	20	\$ 69.88	\$ 1,398	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,398
235	Superintendent - Close-out various items, incl paper wk, & meet w/WCH & Flour Hanford for site close-out.	1	Per	20.0	20	\$ 59.53	\$ 1,191	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,191
236	Lineman Foreman - Support Demobe activities - Est 5hrs ea site	1	Crft	20.0	20	\$ 61.04	\$ 1,221	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,221
237	Lineman - 4 man crew - Demobe - Est 5hrs ea site	4	Crft	20.0	80	\$ 55.79	\$ 4,463	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,463
238	Lineman Bucket Truck - w/Man Bucket Boom, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295
239	Lineman Pole Auger Truck - w/Man Boom, Pole Auger, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #3**  
**SUBJECT: 2.0 Feed From Richland & 400 Area**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Route Power From 400 Area To 300 Area North End

Estimate No : 1004-Elect-Opt#3  
Date : 04/24/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
240	Lineman Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400
241	Truck Tractor - Misc Mod, GVW >60000 Lbs, 6x4 / 400 Hp, Diesel, Max GVW 75000, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 50.82	\$ 254	\$ -	\$ -	\$ 254
242	Float Trailer High - Misc Model, 40' Lg, 8 tires, Flatbed, 2 axle / 40 ton, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 8.18	\$ 41	\$ -	\$ -	\$ 41
243	Electrician Foreman - Support Demobe activities	1	Crft	10.0	10	\$ 53.75	\$ 538	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 538
244	Electrician - Crew of 4 - Support Demobe activities	4	Crft	5.0	20	\$ 50.34	\$ 1,007	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,007
245	Electrician Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 Trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400
246	Operator - Support equip removal	1	Ea	10.0	10	\$ 38.94	\$ 389	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 389
247	Tractor Loader Backhoe - Case 580M Series-2, 4WD, Fixed, Diesel, Dig Depth 14-15', Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 23.56	\$ 118	\$ -	\$ -	\$ 118
248	Labor - Support mat'l deliveries	3	Ea	20.0	60	\$ 32.91	\$ 1,975	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,975
249	Fuel Truck - On-Highway Tanker - Misc Mod, 250 Hp, 4000 Gal, 14000 Lbs, 4x2, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 120	\$ -	\$ -	\$ 120
250	Generator - Misc Mod, 10000 Watts, 16 Hp, Diesel, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 9.02	\$ 27	\$ -	\$ -	\$ 27
251	Misc Sml Equip - Allowance for sml compactors, wire pullers, etc	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 45.00	\$ 135	\$ -	\$ -	\$ 135
252	Office Trailer - Field, Enclosed 8'w x 32'lq - Yr/04 - \$ Allowance for disconnect & deliver back to Vendor	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 750	\$ 750	\$ -	\$ -	\$ 750
253	Materials for Mobe support - Allowance	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					240		\$12,181		\$ 500		\$ 2,835		\$ -	\$15,516
<b>Total All Activity Segments</b>					5,205		970,914		485,789		122,086		1,085,447	2,664,235



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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

TITLE: **300 Area Utility Replacement Project - Electrical - Option #4**  
SUBJECT: **2.0 Two Lines From Richland / Auto Transformers**  
\* **Rework Power Feeds At 5 Loc. Inside 300 Area**  
\* **Route Power From SHC SubSt. To 300 Area South**

Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
<b>2.1 - Perform Constructability Discussions &amp; Permitting Process</b>														
Includes activities such as: SubK perform constructability reviews for each system segment with approval organizations (Flour Hanford, PNNL, & DOE, ; SubK perform construction start-up approval documentation & work packages; & develop procurement contracts.														
1	SubK Meetings w/WCH, Flour Hanford, Others & Discuss Constructability Activities - Incl initial in-house review, develop schedule, procurements, etc ; meet w/WCH & FH for discussing scope; prepare/review construction permitting docs. - Est 3 Design/Mgr personnel x 3wks & mat'l allowance.	3	Per	120.0	360	\$ 69.88	\$ 25,157	\$ 350	\$ 1,050	\$ -	\$ -	\$ -	\$ -	\$ 26,207
<b>Subtotal</b>					360		\$25,157		\$ 1,050		\$ -		\$ -	\$26,207
<b>2.2 - Mobe Site</b>														
Includes personnel training, set up equipment, layout and survey area, & prepare for construction activities. Est majority of equipment owned by SubK w/other pcs available in surrounding area with in 100 miles.														
2	Engineer - Out line mat'l take-offs, support procurements, d/vlp Work Pkgs, & meet w/WCH & Flour Hanford for start-up.	1	Per	40.0	40	\$ 69.88	\$ 2,795	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,795
3	Superintendent - Support mat'l take-offs, procurements, d/vlp Work Pkgs, & meet w/WCH & Flour Hanford for start-up. Est 40/hrs	1	Per	40.0	40	\$ 59.53	\$ 2,381	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,381
4	Surveyors - Used Fld Support Eng rate - 2 man crew 40hrs	2	Ea	40.0	80	\$ 59.14	\$ 4,731	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,731
5	Training Budget - Estimated amount for Subcontractor training expenses. Allowance - \$250 per person	12	Ea	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250.00	\$ 3,000	\$ 3,000
6	Training Labor - Estimated 8hrs per person to go thru site training. See Training wk shts for Labor costs.	1	Ls	0.0	1	\$ 6,451	\$ 6,451	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,451
7	Lineman Foreman - Support Mobe activities	1	Crft	20.0	20	\$ 61.04	\$ 1,221	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,221
8	Lineman - 4 man crew - Mobe	4	Crft	20.0	80	\$ 55.79	\$ 4,463	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,463
9	Lineman Bucket Truck - w/Man Bucket Boom, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295
10	Lineman Pole Auger Truck - w/Man Boom, Pole Auger, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295
11	Lineman Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South

Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
12	Truck Tractor - Misc Mod, GVW >60000 Lbs, 6x4 / 400 Hp, Diesel, Max GVW 75000, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 50.82	\$ 254	\$ -	\$ -	\$ 254
13	Float Trailer - High - Misc Model, 40' Lg, 8 tires, Flatbed, 2 axle / 40 ton, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 8.18	\$ 41	\$ -	\$ -	\$ 41
14	Electrician Foreman - Support mat'l deliveries	1	Crft	20.0	20	\$ 53.75	\$ 1,075	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,075
15	Electrician - Support mat'l deliveries	2	Crft	20.0	40	\$ 50.34	\$ 2,014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,014
16	Electrician Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 Trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400
17	Operator - Support equip & mat'l deliveries	1	Ea	20.0	20	\$ 38.94	\$ 779	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 779
18	Tractor Loader Backhoe - Case 580M Series-2, 4WD, Fixed, Diesel, Dig Depth 14-15', Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 23.56	\$ 118	\$ -	\$ -	\$ 118
19	Labor - Support mat'l deliveries	3	Ea	20.0	60	\$ 32.91	\$ 1,975	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,975
20	Fuel Truck - On-Highway Tanker - Misc Mod, 250 Hp, 4000 Gal, 14000 Lbs, 4x2, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 120	\$ -	\$ -	\$ 120
21	Generator - Misc Mod, 10000 Watts, 16 Hp, Diesel, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 9.02	\$ 27	\$ -	\$ -	\$ 27
22	Misc Sml Equip - Allowance for sml compactors, wire pullers, etc	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 45.00	\$ 135	\$ -	\$ -	\$ 135
23	Office Trailer - Field, Enclosed 8'w x 32'l'g - Yr/04 - \$ Allowance for delivery & set-up	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 1,500	\$ 1,500	\$ -	\$ -	\$ 1,500
24	Materials for Mobe support - Allowance	1	Ls	0.0	0	\$ -	\$ -	\$ 2,000	\$ 2,000	\$ -	\$ -	\$ -	\$ -	\$ 2,000
<b>Subtotal</b>						401	\$27,885		\$ 2,000		\$ 3,585		\$ 3,000	\$36,470
<b>2.3 - Project Support for Duration</b>														
Includes personnel, equipment, and rentals supporting the project for duration of construction schedule.														
25	SubK Engineer - Various needs during const activities - Incl wk pkgs, safety eval, & const oversight length of const schd.	160	Dys	3.0	479	\$ 69.88	\$ 33,445	\$ -	\$ -	\$ 47	\$ 7,449	\$ -	\$ -	\$ 40,894
26	SubK Superintendent - Duration of construction	160	Dys	10.0	1,595	\$ 59.53	\$ 94,973	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 94,973
27	Porta-Let Services - Est 2 single person units for duration of proj - \$20.32 per wk ea (incl rent, cleaning 1x per wk w/pumping) x 2 units = \$40.64/wk	39.9	Wks	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40.64	\$ 1,621	\$ 1,621
28	Const Trailer 32 x 8' - Incl office expense, supplies, trailer rental, lights & HVAC elect. - Support Subcontractor Mgmt, Supv, & Craft. Est \$50 rent + \$100 utilities = \$150 per week	39.9	Wks	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 150	\$ 5,983	\$ -	\$ -	\$ 5,983

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South

Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
29	Teamster -	160	Dys	5.0	798	\$ 38.42	\$ 30,647	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,647
30	Pickup Truck - 1/2 Ton, 4x2, 143 Hp, Conventional Cab, Gas, Yr/04 - Est 2 trucks x \$10.31/hr ea x 2 = \$20.62 - Est total days x 60%	957	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 20.62	\$ 19,738	\$ -	\$ -	\$ 19,738
31	Pickup Truck - 3/4 Ton, 4x4, 285 Hp, Conventional Cab, Gas, Yr/04 - Est 1 truck x \$18.49/hr - Est total days x 60%	957	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 36.98	\$ 35,398	\$ -	\$ -	\$ 35,398
32	Fuel Truck - On-Highway Tanker - Misc Mod, 250 Hp, 4000 Gal, 14000 Lbs, 4x2, Yr/04 - Est Stand-by Time to 80% of const hrs - Est total days x 20%	319	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 12,766	\$ -	\$ -	\$ 12,766
33	Lube / Mechanic Truck, 2 ton, 800 gal, On-Highway 250 HP, Diesel, Yr/04 - Est Stand-by Time to 80% of const hrs - Est total days x 20%	319	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 48.38	\$ 15,437	\$ -	\$ -	\$ 15,437
34	Misc Sml Equip - Allowance for sml compactors, wire pullers, etc - Est Stand-by Time to 60% of const hrs - Est total days x 40%	638	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 45.00	\$ 28,717	\$ -	\$ -	\$ 28,717
35	Generator - Misc Mod, 10000 Watts, 16 Hp, Diesel, Yr/04 - Est total days x 40%	638	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 9.02	\$ 5,756	\$ -	\$ -	\$ 5,756
36	Materials supporting activities - Allowance	1	Ls	0.0	0	\$ -	\$ -	\$ 2,500	\$ 2,500	\$ -	\$ -	\$ -	\$ -	\$ 2,500
<b>Subtotal</b>					2,872		\$159,065	\$ 2,500	\$ 2,500	\$ 131,243		\$ 1,621	\$ 1,621	\$294,429
<b>2.4 - Sand Hill Crane Substation Power to South End of Triangle</b>														
Includes City of Richland performing all activities to the existing Sand Hill Crane such as: Lay-out work; install substation splitter system w/switches; install switch station mods; & test new system alterations. Hrs not shown in Project Support durations due to being accomplished by City of Richland & not other 300 Area utility installation SubK.														
37	Estimate Splitter System w/Stanchion Piping/Wire - Est 2 splitters w/2-switches - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ 25,000	\$ 25,000
38	Estimate Switch Station Skid Mods - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ 15,000	\$ 15,000
39	Estimate Duct Bank Installation - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors. Est running 2 separate duct banks w/2 - 4" sch 40 PVC conduits. This provides primary & secondary feed systems to perimeter of Sub-Station. Est 300Lf x 2 sys = 600Lf	600	Lf	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100	\$ 60,000	\$ 60,000



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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South

Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
40	Estimate Horz Line Boring Under Stevens Road East - Est placing 2- 5" dia casing 100' Lg for routing a 4" PVC conduit thru. Est based on conversations w/Flour Hanford, WCH Eng. & Outside Vendors.	200	Lf	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45.12	\$ 9,024	\$ 9,024
41	Electrician Crew #6 - Est Installing Pull Box Both sides of Rd - Est excavation; compacted gravel bed; install box w/lid; grnd; & misc.	4	Ea	5.0	20	\$ 358.00	\$ 7,160	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,160
42	Pull Box Both sides of Rd - Est excavation; compacted gravel bed; install box w/lid; grnd; & misc.	4	Ea	0.0	0	\$ -	\$ -	\$ 850	\$ 3,400	\$ -	\$ -	\$ -	\$ -	\$ 3,400
43	Electrician Crew #5 - Incl pulling 4/0 wire inside SHC Sub-Station to perimeter Tie-in Point - Est 2 sys of 3 wire x 300Lf ea sys, or 300Lf x 3 wire x 2 sys = 1800Lf. Assume pulling in 1 bundle in ea conduit w/three wires.	2	EA	10.0	20	\$ 335.00	\$ 6,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,700
44	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 300Lf x 3-lines ea cir x 2 sys = 1800Lf	1,800	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 54,000	\$ -	\$ -	\$ -	\$ -	\$ 54,000.00
45	Lineman Crew #4 - Support BP Tie-ins - Allowance for performing tie-in; & completing system test & approval.	1	Ls	20.0	20	\$ 545.00	\$ 10,900	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,900
46	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					60		\$24,760		\$ 57,900	\$ -	\$ -	\$ 109,024	\$ 191,684	
<b>2.5 - Install Over-head Lines to East &amp; West Demarcation Point</b>														
Includes City of Richland performing activities such as: Lay-out work; survey ground; install hardware on poles; auger pole holes; install poles; install wire on poles; perform tie-ins; & test service. 2 separate lines run from Sand Hill Crane Sub-Station to demarcation points / mini sub-stations. One line runs parallel to Stevens Dr. on west side of triangle. The other line runs east to GW Way and then north on east side of triangle. When lines reach GW Way road running diagonal to Stevens the cross over shall be accomplished by installing a transition pole down to duct-bank and pass under road then back up on transition pole continuing on overhead lines to mini sub-stations w/auto-transformers. Hrs not shown in Project Support durations due to being accomplished by City of Richland & not other 300 Area utility installation SubK.														
47	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ls	10.0	10	\$ 423	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
48	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
<b>WEST SIDE OVER-HEAD POWER LINE</b>														
49	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	1	Ea	10.0	10	\$ 423	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
50	Hardware - Incl cross arms, arrestors, transition hardware - Est 2- 6' arms x 1 circuit per pole = 2	2	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 608	\$ -	\$ -	\$ -	\$ -	\$ 608
51	Fuse Cut-Outs - Incl pole mount installation hardware - Est 1 per tie-in pole x 1 pole	1	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 1,155	\$ -	\$ -	\$ -	\$ -	\$ 1,155

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South

Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
52	Poles - 45' Class 2 poles	1	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 940	\$ -	\$ -	\$ -	\$ -	\$ 940
53	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 1-45' poles to be placed.	1	Ea	5.0	5	\$ 501	\$ 2,505	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,505
54	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
55	Lineman Crew #1- Incl placing hardware on poles. Est 1 pole every 150'; Est distance for west side over-head line @ 5280'; or 5280 / 150 = 35 poles to be prepared for setting w/STD hardware config.	35	Ea	5.0	175	\$ 501	\$ 87,675	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 87,675
56	Hardware - Incl cross arms, arrestors, transition hardware - Est 2- 6' arms x 1 circuit w/3 lines per pole x 35 poles = 70 cross-arms	70	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 21,280	\$ -	\$ -	\$ -	\$ -	\$ 21,280
57	Poles - 45' Class 2 poles	35	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 32,900	\$ -	\$ -	\$ -	\$ -	\$ 32,900
58	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 35 - 45' poles to be placed.	35	Ea	5.0	175	\$ 501	\$ 87,675	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 87,675
59	Estimate Horz Line Boring Under GW Way Diagonal Rd - Est placing a 5" dia casing 100' Lg for placing a 4" PVC conduit thru. Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	50	Lf	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45.12	\$ 2,256	\$ 2,256
60	Electrician Crew #6 - Estimate Connecting Transition Pole 4" RGS Conduit to Pull Box on both side of GW Way Rd. On other side of rd back into another pull box & into 4" RGS conduit back up a transition pole. Est 4" sch 40 PVC from pull box thru rd sleeve to far side pull box.	70	Lf	0.1	5	\$ 358.00	\$ 1,790	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,790
61	PVC Elect Conduit 1-4" Sch 40 Line w/Spacers - incl conduit; pour concrete as needed around conduit & pull box; & backfill w/compaction. Est 70' of conduit	70	Lf	0.0	0	\$ -	\$ -	\$ 15.83	\$ 1,108	\$ -	\$ -	\$ -	\$ -	\$ 1,108
62	Electrician Crew #6 - Est Installing Pull Box Both sides of Rd - Est excavation; compacted gravel bed; install box w/lid; grnd; & misc.	2	Ea	5.0	10	\$ 358.00	\$ 3,580	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,580
63	Pull Box Both sides of Rd - Est excavation; compacted gravel bed; install box w/lid; grnd; & misc.	2	Ea	0.0	0	\$ -	\$ -	\$ 850	\$ 1,700	\$ -	\$ -	\$ -	\$ -	\$ 1,700
64	Electrician Crew #5 - Incl pulling 4/0 wire from pull box thru rd sleeve to pull box on other side of rd. Est 3 wire x 70Lf = 210Lf. Assume pulling in 1 bundle in conduit w/three wires.	1	Ea	5.0	5	\$ 335.00	\$ 1,675	\$ 850	\$ 850	\$ -	\$ -	\$ -	\$ -	\$ 2,525
65	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 70Lf x 3-lines = 210Lf	210	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 6,300	\$ -	\$ -	\$ -	\$ -	\$ 6,300

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South

Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
66	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
67	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
68	Lineman Crew #1- Incl placing hardware on transition pole. Est 1-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	1	Ea	10.0	10	\$ 423	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
69	Hardware - Incl cross arms, arrestors, transition hardware - Est 2- 6' arms x 1 circuit per pole = 2	2	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 608	\$ -	\$ -	\$ -	\$ -	\$ 608
70	Fuse Cut-Outs - Incl pole mount installation hardware - Est 1 per tie-in pole x 1 pole	1	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 1,155	\$ -	\$ -	\$ -	\$ -	\$ 1,155
71	Poles - 45' Class 2 poles	1	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 940	\$ -	\$ -	\$ -	\$ -	\$ 940
72	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 1-45' pole to be placed.	1	Ea	5.0	5	\$ 501	\$ 2,505	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,505
73	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
74	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Incl pulling 397.5 wire from south end of triangle to mini sub-station - Est 1 sys of 3 wire x 5280Lf (1 mile) = 15,840Lf.	15,840	Lf	0.004	63	\$ 442	\$ 28,005	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,005
75	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 5280Lf (1 mile) x 3-lines ea cir = 15,840Lf	15,840	Lf	0.0	0	\$ -	\$ 0	\$ 1.47	\$ 5,288	\$ -	\$ -	\$ -	\$ -	\$ 5,288
76	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
77	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>EAST SIDE OVER-HEAD POWER LINE</b>														
78	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	1	Ea	10.0	10	\$ 423	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
79	Hardware - Incl cross arms, arrestors, transition hardware - Est 2- 6' arms x 1 circuit per pole = 2	2	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 608	\$ -	\$ -	\$ -	\$ -	\$ 608
80	Fuse Cut-Outs - Incl pole mount installation hardware - Est 1 per tie-in pole x 1 pole	1	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 1,155	\$ -	\$ -	\$ -	\$ -	\$ 1,155
81	Poles - 45' Class 2 poles	1	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 940	\$ -	\$ -	\$ -	\$ -	\$ 940

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RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South

Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
By : Dan Jakubek  
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Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
82	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 1-45' poles to be placed.	1	Ea	5.0	5	\$ 501	\$ 2,505	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,505
83	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
84	Lineman Crew #1- Incl placing hardware on poles. Est 1 pole every 150'; Est distance for east side over-head line @ 7920'; or 7920 / 150 = 53 poles to be prepared for setting w/STD hardware config.	53	Ea	5.0	265	\$ 501	\$ 132,765	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 132,765
85	Hardware - Incl cross arms, arrestors, transition hardware - Est 2- 6' arms x 1 circuit w/3 lines per pole x 53 poles = 106 cross-arms	106	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 32,224	\$ -	\$ -	\$ -	\$ -	\$ 32,224
86	Poles - 45' Class 2 poles	53	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 49,820	\$ -	\$ -	\$ -	\$ -	\$ 49,820
87	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 53 - 45' poles to be placed.	53	Ea	5.0	265	\$ 501	\$ 132,765	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 132,765
88	Estimate Horz Line Boring Under GW Way Diagonal Rd - Est placing a 5" dia casing 100' Lg for placing a 4" PVC conduit thru. Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	50	Lf	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45.12	\$ 2,256	\$ 2,256
89	Electrician Crew #6 - Estimate Connecting Transition Pole 4" RGS Conduit to Pull Box on both side of GW Way Rd. On other side of rd back into another pull box & into 4" RGS conduit back up a transition pole. Est 4" sch 40 PVC from pull box thru rd sleeve to far side pull box.	70	Lf	0.1	5	\$ 358.00	\$ 1,790	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,790
90	PVC Elect Conduit 1-4" Sch 40 Line w/Spacers - incl conduit; pour concrete as needed around conduit & pull box; & backfill w/compaction. Est 70' of conduit	70	Lf	0.0	0	\$ -	\$ -	\$ 15.83	\$ 1,108	\$ -	\$ -	\$ -	\$ -	\$ 1,108
91	Electrician Crew #6 - Est Installing Pull Box Both sides of Rd - Est excavation; compacted gravel bed; install box w/lid; grnd; & misc.	2	Ea	5.0	10	\$ 358.00	\$ 3,580	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,580
92	Pull Box Both sides of Rd - Est excavation; compacted gravel bed; install box w/lid; grnd; & misc.	2	Ea	0.0	0	\$ -	\$ -	\$ 850	\$ 1,700	\$ -	\$ -	\$ -	\$ -	\$ 1,700
93	Electrician Crew #5 - Incl pulling 4/0 wire from pull box thru rd sleeve to pull box on other side of rd. Est 3 wire x 70Lf = 210Lf. Assume pulling in 1 bundle in conduit w/three wires.	1	Ea	5.0	5	\$ 335.00	\$ 1,675	\$ 850	\$ 850	\$ -	\$ -	\$ -	\$ -	\$ 2,525
94	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 70Lf x 3-lines = 210Lf	210	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 6,300	\$ -	\$ -	\$ -	\$ -	\$ 6,300

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ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South

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				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
95	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
96	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
97	Lineman Crew #1- Incl placing hardware on transition poles. Est 1-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	1	Ea	10.0	10	\$ 423	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
98	Hardware - Incl cross arms, arrestors, transition hardware - Est 2- 6' arms x 1 circuit per pole = 2	2	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 608	\$ -	\$ -	\$ -	\$ -	\$ 608
99	Fuse Cut-Outs - Incl pole mount installation hardware - Est 1 per tie-in pole x 1 pole	1	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 1,155	\$ -	\$ -	\$ -	\$ -	\$ 1,155
100	Poles - 45' Class 2 poles	1	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 940	\$ -	\$ -	\$ -	\$ -	\$ 940
101	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 1-45' pole to be placed.	1	Ea	5.0	5	\$ 501	\$ 2,505	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,505
102	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
103	Electrician Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Incl pulling 397.5 wire from south end of triangle to mini sub-station - Est 1 sys of 3 wire x 7920Lf (1.5 miles) = 23,760Lf.	23,760	Lf	0.002	44	\$ 442	\$ 19,470	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,470
104	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 7920Lf (1.5 miles) x 3-lines ea cir = 23,760Lf	23,760	Lf	0.0	0	\$ -	\$ 0	\$ 1.47	\$ 34,903	\$ -	\$ -	\$ -	\$ -	\$ 34,903
105	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
106	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					1,137		\$ 555,415		\$ 209,895		\$ -		\$ 4,512	\$ 769,822
<b>2.6 - Install West Side Sub-Station</b>														
Includes - Meet w/Richland City Engineers for constructability review & tie-in connection process; lay-out work; survey areas; clear & grub areas; remove soil & spread outside of perimeter areas; install substation grounding system; install gravel & compact; install 1 equipment vault & pad; install 1 - auto-transformer & regulator to step up voltage from Richland City Feed; install 1-leg splitter system w/switches; install switch station; & safety/security 8' high chain link fence; install access road w/50' x 24' wide w/6" compacted gravel & turn-in off other 300 Area site roads.														

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RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

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				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
107	Lineman Crew #1 - Performing Other Activities - Incl mobe to area; lay-out work; & survey area for pole installation.	1	Ls	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
108	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
109	Estimate Yard Portion - Est yard based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 42,500	\$ 42,500	\$ 42,500
110	Estimate Elect Tie-in w/Wire & Tubing to Transformer - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 37,500	\$ 37,500	\$ 37,500
111	Estimate Installation of Auto-Transformer - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ea	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 630,000	\$ 630,000	\$ 630,000
112	Estimate Splitter System w/Stanchion Piping/Wire - Est 5 splitters w/switches - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 83,333	\$ 83,333	\$ 83,333
113	Estimate Switch Station Skid w/Out-Door Rated Equip - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 81,000	\$ 81,000	\$ 81,000
114	Estimate Road Extension & Turn-in - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,500	\$ 12,500	\$ 12,500
115	Electrician Crew #6 - Install new duct bank from Substation to Stevens Drive Connection point. Incl excavating; placing 2-4" PVC elect conduit lines & spacers; pour concrete around conduit; & backfill w/compaction. Est 50' of new duct bank	50	Lf	0.17	8	\$ 358.00	\$ 2,983	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,983
116	PVC Elect Conduit 2-4" Sch 40 Lines w/Spacers - incl conduit; pour concrete around conduit; & backfill w/compaction. Est 50' of new duct bank	50	Lf	0.0	0	\$ -	\$ -	\$ 22.62	\$ 1,131	\$ -	\$ -	\$ -	\$ -	\$ 1,131
117	Electrician Crew #5 - Est pulling new wire into new duct bank - Est 50' of wire x 3 x 1 sys = 150Lf. Assume pulling in bundles of three wires.	50.0	Hrs	0.07	3.5	\$ 335.00	\$ 1,173	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,173
118	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 50Lf - 50 x 3-lines ea cir x 1 sys = 150Lf	150	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 4,500	\$ -	\$ -	\$ -	\$ -	\$ 4,500
119	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
<b>Subtotal</b>					22		\$ 8,386		\$ 6,131		\$ -		\$ 886,833	\$ 901,350

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South

Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
	<b>2.7 - Install West to East Power Feed Cross-Over Tie</b>													
	Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; perform tie-ins; & test service.													
120	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
121	Hardware - Incl cross arms, arrestors, transition hardware - Est 2- 6' arms x 1 circuit per pole = 4	4	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 1,216	\$ -	\$ -	\$ -	\$ -	\$ 1,216
122	Fuse Cut-Outs - Incl pole mount installation hardware - Est 1 per tie-in pole x 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
123	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
124	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 2-45' poles to be placed.	2	Ea	5.0	10	\$ 501	\$ 5,010	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,010
125	Electrician Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Incl pulling 2/0 Hendrix Supported wire from west side to east side sub-stations - Est 1 sys of 3 wire x 2640Lf (1/2 mile) = 7,920Lf.	7,920	Lf	0.004	29	\$ 442	\$ 12,980	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,980
126	Wire - Est 2/0 Hendrix Supported x 3/c per circuit & misc items - Est distance approx 2640Lf (1/2 mile) x 3-lines ea cir = 7,920Lf	7,920	Lf	0.0	0	\$ -	\$ 0	\$ 2.56	\$ 20,275	\$ -	\$ -	\$ -	\$ -	\$ 20,275
127	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
128	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
	<b>Subtotal</b>				69		\$ 31,900		\$ 25,931		\$ -		\$ -	\$ 57,831
	<b>2.8 - Install West Side Arial Lines to Existing 300 Area Sys</b>													
	Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; perform tie-ins; & test service.													
129	Lineman Crew #1- Incl placing hardware on transition pole on west side sub-st to existing west side 300 Ara power lines. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South

Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
130	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 1 circuit = 2 arms per pole x 2 poles = 4	4	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 1,216	\$ -	\$ -	\$ -	\$ -	\$ 1,216
131	Fuse Cut-Outs - Incl pole mount pull-dwn swt, & mounting items - Est 1 per sys	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
132	Poles - 45' Class #2 pole	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
133	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 2-45' poles to be placed.	2.0	Hrs	5.0	10	\$ 501.00	\$ 5,010	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,010
134	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
135	Lineman Crew #1- Incl placing hardware on poles. Est 10-45' poles to be prepared for setting w/STD hardware config.	10	Ea	5.0	50	\$ 423.00	\$ 21,150	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,150
136	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 1 circuit per pole = 2 per pole x 10 poles = 20	20	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 3,952	\$ -	\$ -	\$ -	\$ -	\$ 3,952
137	Poles - 45' Class 2 poles	10	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 9,401	\$ -	\$ -	\$ -	\$ -	\$ 9,401
138	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles.	10	Ea	5.0	50	\$ 501	\$ 25,050	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,050
139	Electrician Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Incl pulling 397.5 wire from west side sub-station to existing 300 area tie-in lines - Est 1800' 1sys of 3 wire x 5400Lf	5,400	Lf	0.002	10	\$ 442	\$ 4,425	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,425
140	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 1800Lf x 3-lines ea cir = 5400Lf	5,400	Lf	0.0	0	\$ -	\$ 0	\$ 1.47	\$ 7,933	\$ -	\$ -	\$ -	\$ -	\$ 7,933
141	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Hrs	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
142	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					150		\$ 69,545		\$ 27,442		\$ -		\$ -	\$ 96,987
<b>2.9 - Install East Side Sub-Station</b>														



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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South

Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
Includes - Meet w/Richland City Engineers for constructability review & tie-in connection process; lay-out work; survey areas; clear & grub areas; remove soil & spread outside of perimeter areas; install substation grounding system; install gravel & compact; install 1 equipment vault & pad; install 1 - auto-transformers & regulator to step up voltage from Richland City Feed; install 1-leg splitter system w/switches; install switch station; & safety/security 8' high chain link fence; install access road w/50' x 24' wide w/6" compacted gravel & turn-in off other 300 Area site roads.														
143	Lineman Crew #1 - Performing Other Activities - Incl mobe to area; lay-out work; & survey area for pole installation.	1	Ls	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
144	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
145	Estimate Yard Portion - Est yard based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 42,500	\$ 42,500	\$ 42,500
146	Estimate Elect Tie-in w/Wire & Tubing to Transformer - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 37,500	\$ 37,500	\$ 37,500
147	Estimate Installation of Auto-Transformer - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 630,000	\$ 630,000	\$ 630,000
148	Estimate Splitter System w/Stanchion Piping/Wire - Est 5 splitters w/switches - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 83,333	\$ 83,333	\$ 83,333
149	Estimate Switch Station Skid w/Out-Door Rated Equip - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 81,000	\$ 81,000	\$ 81,000
150	Estimate Road Extension & Turn-in - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,500	\$ 12,500	\$ 12,500
151	Electrician Crew #6 - Install new duct bank from Substation to Stevens Drive Connection point. Incl excavating; placing 2-4" PVC elect conduit lines & spacers; pour concrete around conduit; & backfill w/compaction. Est 50' of new duct bank	50	Lf	0.17	8	\$ 358.00	\$ 2,983	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,983
152	PVC Elect Conduit 2-4" Sch 40 Lines w/Spacers - incl conduit; pour concrete around conduit; & backfill w/compaction. Est 50' of new duct bank	50	Lf	0.0	0	\$ -	\$ -	\$ 22.62	\$ 1,131	\$ -	\$ -	\$ -	\$ -	\$ 1,131

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RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South

Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
153	Electrician Crew #5 - Est pulling new wire into new duct bank - Est 50' of wire x 3 x 1 sys = 150Lf. Assume pulling in bundles of three wires.	50.0	Lf	0.07	3.5	\$ 335.00	\$ 1,173	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,173
154	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 50Lf - 50 x 3-lines ea cir x 1 sys = 150Lf	150	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 4,500	\$ -	\$ -	\$ -	\$ -	\$ 4,500
160	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
<b>Subtotal</b>					22		\$8,386		\$ 6,131		\$ -		\$ 886,833	\$901,350
<b>2.10 - Install 400 Area Power Feed to Air Samplers &amp; Meteorology Tower</b>														
Includes - Meet w/PNNL for constructability review & tie-in connection process; lay-out work; survey areas inside 400 Area for installing aerial poles; & install 13.8KV main distribution breaker, sectionalizing switch, & 1,300 Lf of 4/0 ASCR Penguin aerial line on 45' Class #2 poles; then use existing 400 Area power feed lines from 351 to routing power back to the 400 Area's Air Sampling equipment and Meteorology Tower.														
161	Lineman Crew #1- Incl mobe to area; lay-out work; & survey area for pole installation.	1	Ls	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
162	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
163	Estimate Elect Tie-in at 400 Area - Incl 13.8KV distribution breaker, & sectionalizing switch w/wire, tubing, & conn - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,000	\$ 40,000	\$ 40,000
164	Lineman Crew #1- Incl placing hardware on std poles. Est 9-45' poles to be prepared for setting std hardware (snl circuit).	9	Ea	5.0	45	\$ 423.00	\$ 19,035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,035
165	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 1 circuit per pole = 2 arms per pole x 9 pole = 18	18	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 5,472	\$ -	\$ -	\$ -	\$ -	\$ 5,472
166	Fuse Cut-Outs - Incl installation of hardware items - Est 1 at ea end	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
167	Poles - 45' Class #2 pole	9	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 8,461	\$ -	\$ -	\$ -	\$ -	\$ 8,461
168	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 9-45' std equipped pole to be placed.	9	Ea	5.0	45	\$ 501.00	\$ 22,545	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,545

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ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
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Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
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Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
169	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 1300' x 3 = 3900Lf of wire to be placed.	3,900	Lf	0.004	16	\$ 442.00	\$ 6,895	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,895
170	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 1,300Lf - 1,300 x 3-lines ea cir x 1 sys = 3,900Lf	3,900	Lf	0.0	0	\$ -	\$ -	\$ 1.13	\$ 4,411	\$ -	\$ -	\$ -	\$ -	\$ 4,411
171	Lineman Crew - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	30.0	30	\$ 545.00	\$ 16,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,350
172	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					146		\$69,055		\$21,404		\$0		\$40,000	\$130,459
<b>2.11 - Install BP Pass-thru Line &amp; Tower North of 300 Area</b>														
Includes - Meet w/BP for constructability review & tie-in connection process; lay-out work; survey area; clear & grub area; drill 3'dia x 8'-deep holes for stanchion legs; install sono tubes, rebar, fill w/concrete, & place 4-j-bolt leg fasteners in ea pier; pre-fab new quad support stanchion for Dead End Pass Thru & 90 deg turn to the west at site; install new Dead End Pass Thru Stanchion; install 4 new 80' poles for west leg tie-in tying into BP system; install wire; & support BP for final tie-in to their system.														
173	Lineman Crew #1- Incl mobe to area; lay-out work; & survey area for pole installation.	1	Ls	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
174	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
175	Estimate Quad Dead End Stanchion - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 35,000	\$ 35,000	\$ 35,000
176	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-75' poles to be prepared for placing hardware config (single circuit) for elect tie in to existing BP sys.	2	Ea	5.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
177	Hardware - Incl cross arm, attachment bolts, arrestors, & misc hardware - Est 20' x4"x6" cross arm 3 wire set-up.	2	Ea	0.0	0	\$ -	\$ -	\$ 1,200	\$ 2,400	\$ -	\$ -	\$ -	\$ -	\$ 2,400
178	Poles - 75' Class 2 poles	4	Ea	0.0	0	\$ -	\$ -	\$ 1,567	\$ 6,268	\$ -	\$ -	\$ -	\$ -	\$ 6,268
179	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 4-75' poles to be placed.	4.0	Ea	8.0	32	\$ 501.00	\$ 16,032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,032
180	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 350	\$ 350	\$ -	\$ -	\$ -	\$ -	\$ 350

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**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
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				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
181	Lineman Crew - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 250' of wire to be placed.	350	Lf	0.06	20	\$ 442.00	\$ 8,840	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,840
182	Wire - Est 350KCML x 3/c per circuit & misc items - Est distance approx 350Lf - 350 x 3-lines ea cir x 3 sys = 1050Lf	1,050	Lf	0.0	0	\$ -	\$ -	\$ 2.86	\$ 2,999	\$ -	\$ -	\$ -	\$ -	\$ 2,998.80
183	Lineman Crew #4 - Support BP Tie-ins - Allowance for performing tie-in; & completing system test & approval.	1	Ls	30.0	30	\$ 545.00	\$ 16,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,350
184	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					102		\$49,682		\$12,766		\$0		\$35,000	\$97,448
<b>2.12 - Install North End Power Feed Circuits L6, L4, &amp; L1</b>														
Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; perform tie-ins; & test service. Assume all D&D activities on existing system is captured in other budgets.														
185	Lineman Crew - Crew #1 - Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ea	5.0	5	\$ 423.00	\$ 2,115	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,115
186	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
187	Lineman Crew #1- Incl placing hardware on poles. Est 3-60' poles to be prepared for setting w/STD hardware config.	3	Ea	5.0	15	\$ 423.00	\$ 6,345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,345
188	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms = 2 x 3 circuits = 6 per pole x 3 poles = 18	18	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 3,557	\$ -	\$ -	\$ -	\$ -	\$ 3,557
189	Poles - 60' Class 2 poles	3	Ea	0.0	0	\$ -	\$ -	\$ 1,254	\$ 3,761	\$ -	\$ -	\$ -	\$ -	\$ 3,761
190	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-60' poles to be prepared for setting NON-STD hardware config (triple-circuit) for elect tie in to existing sys.	2	Ea	20.0	40	\$ 423.00	\$ 16,920	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,920
191	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms = 2 x 3 circuits = 6 per pole x 2 poles = 12	12	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 3,648	\$ -	\$ -	\$ -	\$ -	\$ 3,648
192	Poles - 60' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,254	\$ 2,507	\$ -	\$ -	\$ -	\$ -	\$ 2,507
193	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 5-60' std equipped poles to be placed.	5.0	Ea	6.7	33.5	\$ 501.00	\$ 16,784	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,784
194	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South

Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
195	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 800' x 3 x 3 sys = 7200Lf of wire to be placed.	7,200	Lf	0.004	29	\$ 442.00	\$ 12,730	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,730
196	Wire - Est 397.5 & 4/0 type x 3/c per circuit & misc items - Est distance approx 800 Lf - 800 x 3-lines ea cir x 3 sys = 7,200Lf	7,200	Lf	0.0	0	\$ -	\$ -	\$ 1.83	\$ 13,176	\$ -	\$ -	\$ -	\$ -	\$ 13,176
197	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
198	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					132		\$60,343		\$ 27,648		\$ -		\$ -	\$87,991
<b>2.13-Install Bio-Pump Feed Service</b>														
Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; pull existing wire from existing duct bank/s; install new wire in duct bank/s; perform tie-ins; & test service.														
199	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ea	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
200	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
201	Lineman Crew #1- Incl placing hardware on poles. Est 2-45' poles to be prepared for setting w/STD hardware config.	2	Ea	5.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
202	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 1,581	\$ -	\$ -	\$ -	\$ -	\$ 1,581
203	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
204	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
205	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 2,432	\$ -	\$ -	\$ -	\$ -	\$ 2,432
206	Fuse Cut-Outs - Incl pole mount pull-down swt, & mounting items - Est 1 per tie-in pole x 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
207	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South

Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
208	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 4-45' poles to be placed.	4.0	Ea	5.0	20	\$ 501.00	\$ 10,020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,020
209	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
210	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 600' x 3 = 1800Lf of wire to be placed.	3,600	Lf	0.004	14	\$ 442.00	\$ 6,365	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,365
211	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 600 Lf - 600 x 2-lines ea cir x 2 sys = 3,600Lf	3,600	Lf	0.0	0	\$ -	\$ -	\$ 1.47	\$ 5,288	\$ -	\$ -	\$ -	\$ -	\$ 5,288
212	Lineman Crew #1- Installing 13.8 Transformer & Vault - Incl digging hole for vault; placing precaste concrete vault; setting excessed transformer on vault; replacing existing transformer fluid w/correct oil; & checking/testing transformer. Est mat'l allowance	1	Ls	20.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
213	Transformer Vault & Transformer - Est vault excavation; place compacted gravel in bottom; install vault, grd rod/s, lid, & transformer; & replace transformer cooling fluid. Assume transformer is existing at site & no new purchase required.	1	Ls	0.0	0	\$ -	\$ -	\$ 8,500	\$ 8,500	\$ -	\$ -	\$ -	\$ -	\$ 8,500
214	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	30.0	30	\$ 545.00	\$ 16,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,350
215	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
216	Electrician Crew #5 - Est pulling existing wire from duct bank - Incl removing wire & placing in disposal cans. Est 400' of wire. Assume pulling 2 bundles of three wires.	2,400	Lf	0.014	33	\$ 335.00	\$ 11,176	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,176
217	Electrician Crew #5 - Est pulling new wire into existing duct bank - Incl installing wire & placing in disposal cans. Est 400' of wire x 3 x 2 sys = 2400Lf. Assume pulling in 2 bundles of three wires.	2,400	Lf	0.014	33	\$ 335.00	\$ 11,176	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,176
218	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 400Lf - 400 x 3-lines ea cir x 2 sys = 2,400Lf	2,400	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 72,000	\$ -	\$ -	\$ -	\$ -	\$ 72,000
219	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
<b>Subtotal</b>					191		\$80,466		\$97,122		\$0		\$0	\$177,588

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South

Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
	<b>2.14 - Install 325 Secondary Feed Service</b>													
	Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; pull existing wire from existing duct bank/s; install new wire in duct bank/s; perform tie-ins; & test service.													
220	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ea	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
221	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
222	Lineman Crew #1- Incl placing hardware on poles. Est 2-45' poles to be prepared for setting w/STD hardware config.	2	Ea	5.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
223	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 1,581	\$ -	\$ -	\$ -	\$ -	\$ 1,581
224	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
225	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
226	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 2,432	\$ -	\$ -	\$ -	\$ -	\$ 2,432
227	Fuse Cut-Out - Incl pole mount installation hardware- Est 1 per tie-in pole x 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
228	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
229	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 4-45' std equipped poles to be placed.	4.0	Ea	5.0	20	\$ 501.00	\$ 10,020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,020
230	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
231	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 450' x 3 = 1350Lf of wire to be placed.	1,350	Lf	0.004	5	\$ 442.00	\$ 2,387	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,387
232	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 450 Lf - 450 x 3-lines x 1 sys = 1,350Lf	1,350	Lf	0.0	0	\$ -	\$ -	\$ 1.47	\$ 1,983	\$ -	\$ -	\$ -	\$ -	\$ 1,983

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South

Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
233	Lineman Crew #1- Installing 13.8 Transformer & Vault - Incl digging hole for vault; placing precaste concrete vault; setting excessed transformer on vault; replacing existing transformer fluid w/correct oil; & checking/testing transformer.	1	Ls	20.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
234	Transformer Vault & Transformer - Est vault excavation; place compacted gravel in bottom; install vault, grd rod/s, lid, & transformer; & replace transformer cooling fluid. Assume transformer is existing at site & no new purchase required.	1	Ls	0.0	0	\$ -	\$ -	\$ 8,500	\$ 8,500	\$ -	\$ -	\$ -	\$ -	\$ 8,500
235	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	30.0	30	\$ 545.00	\$ 16,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,350
236	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
237	Electrician Crew #5 - Est pulling existing wire from duct bank - Incl removing wire & placing in disposal cans. Est 400' of wire. Assume pulling 2 bundles of three wires.	2	Ea	10.0	20	\$ 335.00	\$ 6,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,700
238	Electrician Crew #5 - Est pulling new wire into existing duct bank - Incl installing wire & placing in disposal cans. Est 300' of wire x 3 x 2 sys = 1,800Lf. Assume pulling in 2 bundles of three wires.	2	Ea	10.0	20	\$ 335.00	\$ 6,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,700
239	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 300Lf - 300 x 3-lines ea cir x 2 sys = 1,800Lf	1,800	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 54,000	\$ -	\$ -	\$ -	\$ -	\$ 54,000
240	Electrician Crew #6 - Install new duct bank from north west corner of bldg to center of west side. Incl excavating; placing 2-4" PVC elect conduit lines & spacers; pour concrete around conduit; & backfill w/compaction. Est 240' of new duct bank	240	Lf	0.17	40	\$ 358.00	\$ 14,320	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,320
241	PVC Elect Conduit 2-4" Sch 40 Lines w/Spacers - incl conduit; pour concrete around conduit; & backfill w/compaction. Est 240' of new duct bank	240	Lf	0.0	0	\$ -	\$ -	\$ 22.62	\$ 5,429	\$ -	\$ -	\$ -	\$ -	\$ 5,429
242	Electrician Crew #5 - Est pulling new wire into new duct bank - Est 240' of wire x 3 x 1 sys = 720Lf. Assume pulling in 1 bundle of three wires.	720	Lf	0.014	10	\$ 335.00	\$ 3,353	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,353
243	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 240Lf - 240 x 3-lines ea cir x 1 sys = 720Lf	720	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 21,600	\$ -	\$ -	\$ -	\$ -	\$ 21,600



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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South

Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
244	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
	<b>Subtotal</b>				205		\$85,209		\$102,845		\$0		\$0	\$188,055
	<b>2.15 - Install West Side Secondary Feed Service</b>													
	Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; perform tie-ins; & test service.													
245	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ls	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
246	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
247	Lineman Crew #1- Incl placing hardware on poles. Est 3-45' poles to be prepared for setting w/STD hardware config.	3	Ea	5.0	15	\$ 423.00	\$ 6,345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,345
248	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 3 poles = 12	12	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 2,371	\$ -	\$ -	\$ -	\$ -	\$ 2,371
249	Poles - 45' Class 2 poles	3	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 2,820	\$ -	\$ -	\$ -	\$ -	\$ 2,820
250	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
251	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 2,432	\$ -	\$ -	\$ -	\$ -	\$ 2,432
252	Fuse Cut-Out - Incl pole mount installation hardware- Est 1 per tie-in pole x 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
253	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
254	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 5-45' std equipped poles to be placed.	5.0	Ea	5.0	25	\$ 501.00	\$ 12,525	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,525
255	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
256	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 3600' of wire to be placed.	3,600	Lf	0.004	14	\$ 442.00	\$ 6,365	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,365

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South

Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
257	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 600 Lf - 600 x 3-lines ea cir x 2 sys = 3,600Lf	3,600	Lf	0.0	0	\$ -	\$ -	\$ 1.47	\$ 5,288	\$ -	\$ -	\$ -	\$ -	\$ 5,288.40
258	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	20.0	20	\$ 545.00	\$ 10,900	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,900
259	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					104		\$48,825		\$18,102		\$0		\$0	\$66,927
<b>2.16 - Fire Suppression Systems</b>														
- Currently Sand Hill Sub-Station will NOT require changes or additions to their Fire Suppression system, therefore no cost is placed in the estimate. - Also the 300 Area will NOT require changes or additions to it's existing fire suppression systems to cover electrical changes. This is due to transformers purchased or re-worked will be filled with approved "High Flash Point" type mineral oil, and other equipment purchased will be classified as "Out-Door Rated" requiring no fire protection. Therefore no cost will be added to this Option for Fire Protection.														
260	Sand Hill sub-Station Fire Protection Costs - There will be no costs for fire protection at this time and current requirements are meet according to the City of Richland Fire Marshall.	0	Per	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
261	300 Area Electrical Equipment Fire Protection Costs - There will be no costs for fire protection at this time and current requirements are meet according to the Flour Hanford Fire Marshall.	0	Per	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal</b>					0		\$ -		\$ -		\$ -		\$ -	\$ -
<b>2.17 - Clean Up Area, Demobe, &amp; Close-out Project</b>														
Includes - Cleaning up area; demobe equipment; & close-out proj at site.														
262	Engineer - Close-out various items, incl paper wk, & meet w/WCH & Flour Hanford for site close-out.	1	Per	20.0	20	\$ 69.88	\$ 1,398	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,398
263	Superintendent - Close-out various items, incl paper wk, & meet w/WCH & Flour Hanford for site close-out.	1	Per	20.0	20	\$ 59.53	\$ 1,191	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,191
264	Lineman Foreman - Support Demobe activities - Est 5hrs ea site	1	Crft	20.0	20	\$ 61.04	\$ 1,221	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,221
265	Lineman - 4 man crew - Demobe - Est 5hrs ea site	4	Crft	20.0	80	\$ 55.79	\$ 4,463	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,463

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #4**  
**SUBJECT: 2.0 Two Lines From Richland / Auto Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South

Estimate No : 1004-Elect-Opt#4  
Date : 04/18/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
266	Lineman Bucket Truck - w/Man Bucket Boom, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295
267	Lineman Pole Auger Truck - w/Man Boom, Pole Auger, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295
268	Lineman Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400
269	Truck Tractor - Misc Mod, GVW >60000 Lbs, 6x4 / 400 Hp, Diesel, Max GVW 75000, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 50.82	\$ 254	\$ -	\$ -	\$ 254
270	Float Trailer High - Misc Model, 40' Lg, 8 tires, Flatbed, 2 axle / 40 ton, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 8.18	\$ 41	\$ -	\$ -	\$ 41
271	Electrician Foreman - Support Demobe activities	1	Crft	10.0	10	\$ 53.75	\$ 538	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 538
272	Electrician - Crew of 4 - Support Demobe activities	4	Crft	5.0	20	\$ 50.34	\$ 1,007	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,007
273	Electrician Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 Trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400
274	Operator - Support equip removal	1	Ea	10.0	10	\$ 38.94	\$ 389	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 389
275	Tractor Loader Backhoe - Case 580M Series-2, 4WD, Fixed, Diesel, Dig Depth 14-15', Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 23.56	\$ 118	\$ -	\$ -	\$ 118
276	Labor - Support mat'l deliveries	3	Ea	20.0	60	\$ 32.91	\$ 1,975	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,975
277	Fuel Truck - On-Highway Tanker - Misc Mod, 250 Hp, 4000 Gal, 14000 Lbs, 4x2, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 120	\$ -	\$ -	\$ 120
278	Generator - Misc Mod, 10000 Watts, 16 Hp, Diesel, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 9.02	\$ 27	\$ -	\$ -	\$ 27
279	Misc Sml Equip - Allowance for sml compactors, wire pullers, etc	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 45.00	\$ 135	\$ -	\$ -	\$ 135
280	Office Trailer - Field, Enclosed 8'w x 32'lq - Yr/04 - \$ Allowance for disconnect & deliver back to Vendor	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 750	\$ 750	\$ -	\$ -	\$ 750
281	Materials for Mobe support - Allowance	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					240		\$12,181		\$ 500		\$ 2,835		\$ -	\$15,516
<b>Total All Activity Segments</b>					6,214		1,316,259		619,368		137,664		1,966,824	4,040,115

PROPRIETARY INFORMATION  
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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
Date : 05/01/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
2.1	- Perform Constructability Discussions & Permitting Process				360		\$ 25,157		\$ 1,050		\$ -		\$ -	\$ 26,207
2.2	- Mobe Site				401		\$ 27,885		\$ 2,000		\$ 3,585		\$ 3,000	\$ 36,470
2.3	- Project Support for Duration				3,442		\$ 190,668		\$ 2,500		\$ 157,319		\$ 1,943	\$ 352,429
2.4	- Sand Hill Crane Substation Power to South End of Triangle				60		\$ 24,760		\$ 57,900		\$ -		\$ 109,024	\$ 191,684
2.5	- Install Over-head Lines to East & West Demarcation Point				1,137		\$ 555,415		\$ 209,895		\$ -		\$ 4,512	\$ 769,822
2.6	- Install West Side Arial Lines to Existing 300 Area Sys				150		\$ 69,545		\$ 27,442		\$ -		\$ -	\$ 96,987
2.7	- Install Transformers At Various Loc				830		\$ 351,090		\$ 1,130,730		\$ -		\$ -	\$ 1,481,820
2.8	- Install 400 Area Power Feed to Air Samplers & Meteorology Tower				146		\$ 69,055		\$ 21,404		\$ -		\$ 40,000	\$ 130,459
2.9	- Install BP Pass-thru Line & Tower North of 300 Area				102		\$ 49,682		\$ 12,766		\$ -		\$ 35,000	\$ 97,448
2.10	- Install North End Power Feed Circuits L6, L4, & L1				132		\$ 60,343		\$ 27,648		\$ -		\$ -	\$ 87,991
* Note - 2.9 Might be Funded By Other WCH Budgets														
2.11	- Install Bio-Pump Feed Service				191		\$ 80,466		\$ 97,122		\$ -		\$ -	\$ 177,588
2.12	- Install 325 Secondary Feed Service				205		\$ 85,209		\$ 102,845		\$ -		\$ -	\$ 188,055
2.13	- Install West Side Secondary Feed Service				104		\$ 48,825		\$ 18,102		\$ -		\$ -	\$ 66,927
2.14	- Fire Suppression System				0		\$ -		\$ -		\$ -		\$ -	\$ -
2.15	- Clean Up Area, Demobe, & Close-out Project				240		\$ 12,181		\$ 500		\$ 2,835		\$ -	\$ 15,516
SUBTOTAL OF ALL SECTIONS >>>>>>>					7,501		\$ 1,650,280		\$ 1,711,905		\$ 163,740		\$ 193,479	\$ 3,719,403
					MHRS		Labor		Material		Equip.		SC	Total

(Note: Sales tax on material, equip, subK, & ODCs only)

Labor		\$ 1,650,280
Mat'l or Other		\$ 1,711,905
Const. Equip.		\$ 163,740
SC		\$ 193,479
ODCs		\$ -
State Tax	8.30%	\$ 308,710
Subtotal >>		\$ 4,028,114
Overhead & Profit	15.00%	\$ 604,217
B&O Tax	0.47%	\$ 18,972
Bond	1.50%	\$ 60,422
Additional Bond	0.00%	\$ -
Subtotal >>		\$ 683,611
TOTAL >>>>>		\$ 4,711,725

PROPRIETARY INFORMATION  
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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
Date : 05/01/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
<b>2.1 - Perform Constructability Discussions &amp; Permitting Process</b>														
Includes activities such as: SubK perform constructability reviews for each system segment with approval organizations (Flour Hanford, PNNL, & DOE, ; SubK perform construction start-up approval documentation & work packages; & develop procurement contracts.														
1	SubK Meetings w/WCH, Flour Hanford, Others & Discuss Constructability Activities - Incl initial in-house review, develop schedule, procurements, etc ; meet w/WCH & FH for discussing scope; prepare/review construction permitting docs. - Est 3 Design/Mgr personnel x 3wks & mat'l allowance.	3	Per	120.0	360	\$ 69.88	\$ 25,157	\$ 350	\$ 1,050	\$ -	\$ -	\$ -	\$ -	\$ 26,207
<b>Subtotal</b>					360		\$25,157	\$ 1,050	\$ -	\$ -	\$ -	\$ -	\$ -	\$26,207
<b>2.2 - Mobe Site</b>														
Includes personnel training, set up equipment, layout and survey area, & prepare for construction activities. Est majority of equipment owned by SubK w/other pcs available in surrounding area with in 100 miles.														
2	Engineer - Out line mat'l take-offs, support procurements, dvlp Work Pkgs, & meet w/WCH & Flour Hanford for start-up.	1	Per	40.0	40	\$ 69.88	\$ 2,795	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,795
3	Superintendent - Support mat'l take-offs, procurements, dvlp Work Pkgs, & meet w/WCH & Flour Hanford for start-up. Est 40/hrs	1	Per	40.0	40	\$ 59.53	\$ 2,381	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,381
4	Surveyors - Used Fid Support Eng rate - 2 man crew 40hrs	2	Ea	40.0	80	\$ 59.14	\$ 4,731	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,731
5	Training Budget - Estimated amount for Subcontractor training expenses. Allowance - \$250 per person	12	Ea	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250.00	\$ 3,000	\$ 3,000
6	Training Labor - Estimated 8hrs per person to go thru site training. See Training wk shts for Labor costs.	1	Ls	0.0	1	\$ 6,451	\$ 6,451	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,451
7	Lineman Foreman - Support Mobe activities	1	Crft	20.0	20	\$ 61.04	\$ 1,221	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,221
8	Lineman - 4 man crew - Mobe	4	Crft	20.0	80	\$ 55.79	\$ 4,463	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,463
9	Lineman Bucket Truck - w/Man Bucket Boom, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295
10	Lineman Pole Auger Truck - w/Man Boom, Pole Auger, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295
11	Lineman Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
Date : 05/01/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
12	Truck Tractor - Misc Mod, GVW >60000 Lbs, 6x4 / 400 Hp, Diesel, Max GVW 75000, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 50.82	\$ 254	\$ -	\$ -	\$ 254
13	Float Trailer High - Misc Model, 40' Lg, 8 tires, Flatbed, 2 axle / 40 ton, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 8.18	\$ 41	\$ -	\$ -	\$ 41
14	Electrician Foreman - Support mat'l deliveries	1	Crft	20.0	20	\$ 53.75	\$ 1,075	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,075
15	Electrician - Support mat'l deliveries	2	Crft	20.0	40	\$ 50.34	\$ 2,014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,014
16	Electrician Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 Trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400
17	Operator - Support equip & mat'l deliveries	1	Ea	20.0	20	\$ 38.94	\$ 779	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 779
18	Tractor Loader Backhoe - Case 580M Series-2, 4WD, Fixed, Diesel, Dig Depth 14-15', Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 23.56	\$ 118	\$ -	\$ -	\$ 118
19	Labor - Support mat'l deliveries	3	Ea	20.0	60	\$ 32.91	\$ 1,975	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,975
20	Fuel Truck - On-Highway Tanker - Misc Mod, 250 Hp, 4000 Gal, 14000 Lbs, 4x2, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 120	\$ -	\$ -	\$ 120
21	Generator - Misc Mod, 10000 Watts, 16 Hp, Diesel, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 9.02	\$ 27	\$ -	\$ -	\$ 27
22	Misc Sml Equip - Allowance for sml compactors, wire pullers, etc	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 45.00	\$ 135	\$ -	\$ -	\$ 135
23	Office Trailer - Field, Enclosed 8'w x 32'lg - Yr/04 - \$ Allowance for delivery & set-up	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 1,500	\$ 1,500	\$ -	\$ -	\$ 1,500
24	Materials for Mobe support - Allowance	1	Ls	0.0	0	\$ -	\$ -	\$ 2,000	\$ 2,000	\$ -	\$ -	\$ -	\$ -	\$ 2,000
<b>Subtotal</b>					401		\$27,885	\$ 2,000		\$ 3,585			\$ 3,000	\$36,470
<b>2.3 - Project Support for Duration</b>														
Includes personnel, equipment, and rentals supporting the project for duration of construction schedule.														
25	SubK Engineer - Various needs during const activities - Incl wk pkgs, safety eval, & const oversight length of const schd.	191	Dys	3.0	574	\$ 69.88	\$ 40,090	\$ -	\$ -	\$ 47	\$ 8,929	\$ -	\$ -	\$ 49,019
26	SubK Superintendent - Duration of construction	191	Dys	10.0	1,912	\$ 59.53	\$ 113,842	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 113,842
27	Porta-Let Services - Est 2 single person units for duration of proj - \$20.32 per wk ea (incl rent, cleaning 1x per wk w/pumping) x 2 units = \$40.64/wk	47.8	Wks	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40.64	\$ 1,943	\$ 1,943
28	Const Trailer 32 x 8' - Incl office expense, supplies, trailer rental, lights & HVAC elect. - Support Subcontractor Mgmt, Supv, & Craft. Est \$50 rent + \$100 utilities = \$150 per week	47.8	Wks	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 150	\$ 7,171	\$ -	\$ -	\$ 7,171
29	Teamster -	191	Dys	5.0	956	\$ 38.42	\$ 36,736	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 36,736

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
Date : 05/01/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
30	Pickup Truck - 1/2 Ton, 4x2, 143 Hp, Conventional Cab, Gas, Yr/04 - Est 2 trucks x \$10.31/hr ea x 2 = \$20.62 - Est total days x 60%	1,147	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 20.62	\$ 23,659	\$ -	\$ -	\$ 23,659
31	Pickup Truck - 3/4 Ton, 4x4, 285 Hp, Conventional Cab, Gas, Yr/04 - Est 1 truck x \$18.49/hr - Est total days x 60%	1,147	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 36.98	\$ 42,431	\$ -	\$ -	\$ 42,431
32	Fuel Truck - On-Highway Tanker - Misc Mod, 250 Hp, 4000 Gal, 14000 Lbs, 4x2, Yr/04 - Est Stand-by Time to 80% of const hrs - Est total days x 20%	382	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 15,303	\$ -	\$ -	\$ 15,303
33	Lube / Mechanic Truck, 2 ton, 800 gal, On-Highway 250 HP, Diesel, Yr/04 - Est Stand-by Time to 80% of const hrs - Est total days x 20%	382	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 48.38	\$ 18,504	\$ -	\$ -	\$ 18,504
34	Misc Sml Equip - Allowance for sml compactors, wire pullers, etc - Est Stand-by Time to 60% of const hrs - Est total days x 40%	765	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 45.00	\$ 34,422	\$ -	\$ -	\$ 34,422
35	Generator - Misc Mod, 10000 Watts, 16 Hp, Diesel, Yr/04 - Est total days x 40%	765	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 9.02	\$ 6,900	\$ -	\$ -	\$ 6,900
36	Materials supporting activities - Allowance	1	Ls	0.0	0	\$ -	\$ -	\$ 2,500	\$ 2,500	\$ -	\$ -	\$ -	\$ -	\$ 2,500
<b>Subtotal</b>					3,442		\$190,668		\$ 2,500	\$ 157,319		\$ 1,943	\$352,429	
<b>2.4 - Sand Hill Crane Substation Power to South End of Triangle</b>														
Includes City of Richland performing all activities to the existing Sand Hill Crane such as: Lay-out work; install substation splitter system w/switches; install switch station mods; & test new system alterations. Hrs not shown in Project Support durations due to being accomplished by City of Richland & not other 300 Area utility installation SubK.														
37	Estimate Splitter System w/Stanchion Piping/Wire - Est 2 splitters w/2-switches - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ 25,000	\$ 25,000
38	Estimate Switch Station Skid Mods - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ 15,000	\$ 15,000
39	Estimate Duct Bank Installation - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors. Est running 2 separate duct banks w/2 - 4" sch 40 PVC conduits. This provides primary & secondary feed systems to perimeter of Sub-Station. Est 300Lf x 2 sys = 600Lf	600	Lf	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100	\$ 60,000	\$ 60,000

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
 \* Rework Power Feeds At 5 Loc. Inside 300 Area  
 \* Route Power From SHC SubSt. To 300 Area South  
 \* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
Date : 05/01/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
40	Estimate Horz Line Boring Under Stevens Road East - Est placing 2- 5" dia casing 100' Lg for routing a 4" PVC conduit thru. Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	200	Lf	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45.12	\$ 9,024	\$ 9,024
41	Electrician Crew #6 - Est Installing Pull Box Both sides of Rd - Est excavation; compacted gravel bed; install box w/lid; grnd; & misc.	4	Ea	5.0	20	\$ 358.00	\$ 7,160	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,160
42	Pull Box Both sides of Rd - Est excavation; compacted gravel bed; install box w/lid; grnd; & misc.	4	Ea	0.0	0	\$ -	\$ -	\$ 850	\$ 3,400	\$ -	\$ -	\$ -	\$ -	\$ 3,400
43	Electrician Crew #5 - Incl pulling 4/0 wire inside SHC Sub-Station to perimeter Tie-in Point - Est 2 sys of 3 wire x 300Lf ea sys, or 300Lf x 3 wire x 2 sys = 1800Lf. Assume pulling in 1 bundle in ea conduit w/three wires.	2	EA	10.0	20	\$ 335.00	\$ 6,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,700
44	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 300Lf x 3-lines ea cir x 2 sys = 1800Lf	1,800	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 54,000	\$ -	\$ -	\$ -	\$ -	\$ 54,000.00
45	Lineman Crew #4 - Support BP Tie-ins - Allowance for performing tie-in; & completing system test & approval.	1	Ls	20.0	20	\$ 545.00	\$ 10,900	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,900
46	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					60		\$24,760		\$ 57,900		\$ -		\$ 109,024	\$ 191,684
<b>2.5 - Install Over-head Lines to East &amp; West Demarcation Point</b>														
Includes City of Richland performing activities such as: Lay-out work; survey ground; install hardware on poles; auger pole holes; install poles; install wire on poles; perform tie-ins; & test service. 2 separate lines run from Sand Hill Crane Sub-Station to demarcation points / mini sub-stations. One line runs parallel to Stevens Dr. on west side of triangle. The other line runs east to GW Way and then north on east side of triangle. When lines reach GW Way road running diagonal to Stevens the cross over shall be accomplished by installing a transition pole down to duct-bank and pass under road then back up on transition pole continuing on overhead lines to mini sub-stations w/auto-transformers. Hrs not shown in Project Support durations due to being accomplished by City of Richland & not other 300 Area utility installation SubK.														
47	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ls	10.0	10	\$ 423	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
48	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
<b>WEST SIDE OVER-HEAD POWER LINE</b>														
49	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	1	Ea	10.0	10	\$ 423	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
50	Hardware - Incl cross arms, arrestors, transition hardware - Est 2- 6' arms x 1 circuit per pole = 2	2	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 608	\$ -	\$ -	\$ -	\$ -	\$ 608
51	Fuse Cut-Outs - Incl pole mount installation hardware - Est 1 per tie-in pole x 1 pole	1	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 1,155	\$ -	\$ -	\$ -	\$ -	\$ 1,155



PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
 \* Rework Power Feeds At 5 Loc. Inside 300 Area  
 \* Route Power From SHC SubSt. To 300 Area South  
 \* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
Date : 05/01/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
52	Poles - 45' Class 2 poles	1	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 940	\$ -	\$ -	\$ -	\$ -	\$ 940
53	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 1-45' poles to be placed.	1	Ea	5.0	5	\$ 501	\$ 2,505	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,505
54	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
55	Lineman Crew #1- Incl placing hardware on poles. Est 1 pole every 150'; Est distance for west side over-head line @ 5280'; or 5280 / 150 = 35 poles to be prepared for setting w/STD hardware config.	35	Ea	5.0	175	\$ 501	\$ 87,675	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 87,675
56	Hardware - Incl cross arms, arrestors, transition hardware - Est 2- 6" arms x 1 circuit w/3 lines per pole x 35 poles = 70 cross-arms	70	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 21,280	\$ -	\$ -	\$ -	\$ -	\$ 21,280
57	Poles - 45' Class 2 poles	35	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 32,900	\$ -	\$ -	\$ -	\$ -	\$ 32,900
58	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 35 - 45' poles to be placed.	35	Ea	5.0	175	\$ 501	\$ 87,675	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 87,675
59	Estimate Horz Line Boring Under GW Way Diagonal Rd - Est placing a 5" dia casing 100' Lg for placing a 4" PVC conduit thru. Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	50	Lf	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45.12	\$ 2,256	\$ 2,256
60	Electrician Crew #6 - Estimate Connecting Transition Pole 4" RGS Conduit to Pull Box on both side of GW Way Rd. On other side of rd back into another pull box & into 4" RGS conduit back up a transition pole. Est 4" sch 40 PVC from pull box thru rd sleeve to far side pull box.	70	Lf	0.1	5	\$ 358.00	\$ 1,790	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,790
61	PVC Elect Conduit 1-4" Sch 40 Line w/Spacers - Incl conduit; pour concrete as needed around conduit & pull box; & backfill w/compaction. Est 70' of conduit	70	Lf	0.0	0	\$ -	\$ -	\$ 15.83	\$ 1,108	\$ -	\$ -	\$ -	\$ -	\$ 1,108
62	Electrician Crew #6 - Est Installing Pull Box Both sides of Rd - Est excavation; compacted gravel bed; install box w/lid; grnd; & misc.	2	Ea	5.0	10	\$ 358.00	\$ 3,580	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,580
63	Pull Box Both sides of Rd - Est excavation; compacted gravel bed; install box w/lid; grnd; & misc.	2	Ea	0.0	0	\$ -	\$ -	\$ 850	\$ 1,700	\$ -	\$ -	\$ -	\$ -	\$ 1,700
64	Electrician Crew #5 - Incl pulling 4/0 wire from pull box thru rd sleeve to pull box on other side of rd. Est 3 wire x 70Lf = 210Lf. Assume pulling in 1 bundle in conduit w/three wires.	1	Ea	5.0	5	\$ 335.00	\$ 1,675	\$ 850	\$ 850	\$ -	\$ -	\$ -	\$ -	\$ 2,525
65	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 70Lf x 3-lines = 210Lf	210	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 6,300	\$ -	\$ -	\$ -	\$ -	\$ 6,300

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
 \* Rework Power Feeds At 5 Loc. Inside 300 Area  
 \* Route Power From SHC SubSt. To 300 Area South  
 \* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
 Date : 05/01/07  
 By : Dan Jakubek  
 Rev No : 0  
 Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
66	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
67	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
68	Lineman Crew #1- Incl placing hardware on transition pole. Est 1-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	1	Ea	10.0	10	\$ 423	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
69	Hardware - Incl cross arms, arrestors, transition hardware - Est 2- 6' arms x 1 circuit per pole = 2	2	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 608	\$ -	\$ -	\$ -	\$ -	\$ 608
70	Fuse Cut-Outs - Incl pole mount installation hardware - Est 1 per tie-in pole x 1 pole	1	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 1,155	\$ -	\$ -	\$ -	\$ -	\$ 1,155
71	Poles - 45' Class 2 poles	1	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 940	\$ -	\$ -	\$ -	\$ -	\$ 940
72	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 1-45' pole to be placed.	1	Ea	5.0	5	\$ 501	\$ 2,505	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,505
73	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
74	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Incl pulling 397.5 wire from south end of triangle to mini sub-station - Est 1 sys of 3 wire x 5280Lf (1 mile) = 15,840Lf. Assume pulling in 1 line per 10hrs.	15,840	Lf	0.004	63	\$ 442	\$ 28,005	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,005
75	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 5280Lf (1 mile) x 3-lines ea cir = 15,840Lf	15,840	Lf	0.0	0	\$ -	\$ 0	\$ 1.47	\$ 5,288	\$ -	\$ -	\$ -	\$ -	\$ 5,288
76	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
77	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>EAST SIDE OVER-HEAD POWER LINE</b>														
92	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	1	Ea	10.0	10	\$ 423	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
93	Hardware - Incl cross arms, arrestors, transition hardware - Est 2- 6' arms x 1 circuit per pole = 2	2	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 608	\$ -	\$ -	\$ -	\$ -	\$ 608
94	Fuse Cut-Outs - Incl pole mount installation hardware - Est 1 per tie-in pole x 1 pole	1	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 1,155	\$ -	\$ -	\$ -	\$ -	\$ 1,155
95	Poles - 45' Class 2 poles	1	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 940	\$ -	\$ -	\$ -	\$ -	\$ 940

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
Date : 05/01/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
96	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 1-45' poles to be placed.	1	Ea	5.0	5	\$ 501	\$ 2,505	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,505
97	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
98	Lineman Crew #1- Incl placing hardware on poles. Est 1 pole every 150'; Est distance for east side over-head line @ 7920'; or 7920 / 150 = 53 poles to be prepared for setting w/STD hardware config.	53	Ea	5.0	265	\$ 501	\$ 132,765	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 132,765
99	Hardware - Incl cross arms, arrestors, transition hardware - Est 2- 6' arms x 1 circuit w/3 lines per pole x 53 poles = 106 cross-arms	106	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 32,224	\$ -	\$ -	\$ -	\$ -	\$ 32,224
100	Poles - 45' Class 2 poles	53	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 49,820	\$ -	\$ -	\$ -	\$ -	\$ 49,820
101	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 53 - 45' poles to be placed.	53	Ea	5.0	265	\$ 501	\$ 132,765	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 132,765
102	Estimate Horz Line Boring Under GW Way Diagonal Rd - Est placing a 5" dia casing 100' Lg for placing a 4" PVC conduit thru. Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	50	Lf	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45.12	\$ 2,256	\$ 2,256
103	Electrician Crew #6 - Estimate Connecting Transition Pole 4" RGS Conduit to Pull Box on both side of GW Way Rd. On other side of rd back into another pull box & into 4" RGS conduit back up a transition pole. Est 4" sch 40 PVC from pull box thru rd sleeve to far side pull box.	70	Lf	0.1	5	\$ 358.00	\$ 1,790	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,790
104	PVC Elect Conduit 1-4" Sch 40 Line w/Spacers - incl conduit; pour concrete as needed around conduit & pull box; & backfill w/compaction. Est 70' of conduit	70	Lf	0.0	0	\$ -	\$ -	\$ 15.83	\$ 1,108	\$ -	\$ -	\$ -	\$ -	\$ 1,108
105	Electrician Crew #6 - Est Installing Pull Box Both sides of Rd - Est excavation; compacted gravel bed; install box w/lid; grnd; & misc.	2	Ea	5.0	10	\$ 358.00	\$ 3,580	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,580
106	Pull Box Both sides of Rd - Est excavation; compacted gravel bed; install box w/lid; grnd; & misc.	2	Ea	0.0	0	\$ -	\$ -	\$ 850	\$ 1,700	\$ -	\$ -	\$ -	\$ -	\$ 1,700
107	Electrician Crew #5 - Incl pulling 4/0 wire from pull box thru rd sleeve to pull box on other side of rd. Est 3 wire x 70Lf = 210Lf. Assume pulling in 1 bundle in conduit w/three wires.	1	Ea	5.0	5	\$ 335.00	\$ 1,675	\$ 850	\$ 850	\$ -	\$ -	\$ -	\$ -	\$ 2,525
108	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 70Lf x 3-lines = 210Lf	210	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 6,300	\$ -	\$ -	\$ -	\$ -	\$ 6,300

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
**\* Rework Power Feeds At 5 Loc. Inside 300 Area**  
**\* Route Power From SHC SubSt. To 300 Area South**  
**\* Install Transformers in 300 Area From 12.74 to 13.8KVA**

Estimate No : 1004-Elect-Opt#5  
Date : 05/01/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
109	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
110	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
111	Lineman Crew #1- Incl placing hardware on transition poles. Est 1-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	1	Ea	10.0	10	\$ 423	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
112	Hardware - Incl cross arms, arrestors, transition hardware - Est 2- 6' arms x 1 circuit per pole = 2	2	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 608	\$ -	\$ -	\$ -	\$ -	\$ 608
113	Fuse Cut-Outs - Incl pole mount installation hardware - Est 1 per tie-in pole x 1 pole	1	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 1,155	\$ -	\$ -	\$ -	\$ -	\$ 1,155
114	Poles - 45' Class 2 poles	1	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 940	\$ -	\$ -	\$ -	\$ -	\$ 940
115	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 1-45' pole to be placed.	1	Ea	5.0	5	\$ 501	\$ 2,505	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,505
116	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
117	Electrician Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Incl pulling 397.5 wire from south end of triangle to mini sub-station - Est 1 sys of 3 wire x 7920Lf (1.5 miles) = 23,760Lf.	23,760	Lf	0.002	44	\$ 442	\$ 19,470	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,470
118	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 7920Lf (1.5 miles) x 3-lines ea cir = 23,760Lf	23,760	Lf	0.0	0	\$ -	\$ 0	\$ 1.47	\$ 34,903	\$ -	\$ -	\$ -	\$ -	\$ 34,903
119	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
120	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
	<b>Subtotal</b>				1,137		\$ 555,415		\$ 209,895		\$ -		\$ 4,512	\$ 769,822
	<b>2.6 - Install West Side Aerial Lines to Existing 300 Area Sys</b>													
	Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; perform tie-ins; & test service.													
121	Lineman Crew #1- Incl placing hardware on transition pole on west side sub-st to existing west side 300 Ara power lines. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
 \* Rework Power Feeds At 5 Loc. Inside 300 Area  
 \* Route Power From SHC SubSt. To 300 Area South  
 \* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
Date : 05/01/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
122	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 1 circuit = 2 arms per pole x 2 poles = 4	4	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 1,216	\$ -	\$ -	\$ -	\$ -	\$ 1,216
123	Fuse Cut-Outs - Incl pole mount pull-dwn swt, & mounting items - Est 1 per sys	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
124	Poles - 45' Class #2 pole	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
125	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 2-45' poles to be placed.	2.0	Hrs	5.0	10	\$ 501.00	\$ 5,010	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,010
126	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
127	Lineman Crew #1- Incl placing hardware on poles. Est 10-45' poles to be prepared for setting w/STD hardware config.	10	Ea	5.0	50	\$ 423.00	\$ 21,150	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,150
128	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 1 circuit per pole = 2 per pole x 10 poles = 20	20	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 3,952	\$ -	\$ -	\$ -	\$ -	\$ 3,952
129	Poles - 45' Class 2 poles	10	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 9,401	\$ -	\$ -	\$ -	\$ -	\$ 9,401
130	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles.	10	Ea	5.0	50	\$ 501	\$ 25,050	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,050
131	Electrician Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Incl pulling 397.5 wire from west side sub-station to existing 300 area tie-in lines - Est 1800' 1sys of 3 wire x 5400Lf	5,400	Lf	0.002	10	\$ 442	\$ 4,425	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,425
132	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 1800Lf x 3-lines ea cir = 5400Lf	5,400	Lf	0.0	0	\$ -	\$ 0	\$ 1.47	\$ 7,933	\$ -	\$ -	\$ -	\$ -	\$ 7,933
133	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Hrs	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
134	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					150		\$ 69,545		\$ 27,442		\$ -		\$ -	\$ 96,987
<b>2.7 - Install Transformers At Various Loc</b>														
Includes - Lay-out work; survey areas; evaluate each building, pump, monitoring equipment, trailers, etc requiring power feed. Identify transformer size, installation materials, & change-out process for each connection point to power feed system. Remove existing transformer, package, & transport to lay-down yard for use as spares. Lay-out transformer attachment on existing vaults, place transformer on vaults & secure. Make connections, tag, test, & sign off documents.														

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
Date : 05/01/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
135	Lineman Crew #1 - Performing Other Activities - Incl mobe to area; lay-out work; & survey area for pole installation.	1	Ls	40.0	40	\$ 423.00	\$ 16,920	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,920
136	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
137	Lineman Crew #1 - Est removal of 150KVA transformers, package, & transport to spares lay-dwn yard -	11	Ea	5.0	55	\$ 423.00	\$ 23,265	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,265
138	Mat'l Allowance - Est sml tools & misc ea transformer.	11	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 2,750	\$ -	\$ -	\$ -	\$ -	\$ 2,750
139	Lineman Crew #1 - Est installing 150 KVA Transformers - Est delivery to loc; setting/securing trnsfmr on vault; make conn; test; & finish docs. Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	11	Ea	10.0	110	\$ 423.00	\$ 46,530	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 46,530
140	150 KVA Transformers - Est mat'l pricing based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	11	Ea	0.0	0	\$ -	\$ -	\$ 17,040	\$ 187,440	\$ -	\$ -	\$ -	\$ -	\$ 187,440
141	Lineman Crew #1 - Est removal of 500KVA transformers, package, & transport to spares lay-dwn yard -	9	Ea	5.0	45	\$ 423.00	\$ 19,035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,035
142	Mat'l Allowance - Est sml tools & misc ea transformer.	9	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 2,250	\$ -	\$ -	\$ -	\$ -	\$ 2,250
143	Lineman Crew #1 - Est installing 500 KVA Transformers - Est delivery to loc; setting/securing trnsfmr on vault; make conn; test; & finish docs. Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	9	Ea	10.0	90	\$ 423.00	\$ 38,070	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,070
144	500 KVA Transformers - Est mat'l pricing based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	9	Ea	0.0	0	\$ -	\$ -	\$ 28,160	\$ 253,440	\$ -	\$ -	\$ -	\$ -	\$ 253,440
145	Lineman Crew #1 - Est removal of 1500KVA transformers, package, & transport to spares lay-dwn yard -	14	Ea	15.0	210	\$ 423.00	\$ 88,830	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 88,830
146	Mat'l Allowance - Est sml tools & misc ea transformer.	14	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 7,000	\$ -	\$ -	\$ -	\$ -	\$ 7,000
147	Lineman Crew #1 - Est installing 1500 KVA Transformers - Est delivery to loc; setting/securing trnsfmr on vault; make conn; test; & finish docs. Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	14	Ea	20.0	280	\$ 423.00	\$ 118,440	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 118,440
148	1500 KVA Transformers - Est mat'l pricing based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	14	Ea	0.0	0	\$ -	\$ -	\$ 48,400	\$ 677,600	\$ -	\$ -	\$ -	\$ -	\$ 677,600

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
 \* Rework Power Feeds At 5 Loc. Inside 300 Area  
 \* Route Power From SHC SubSt. To 300 Area South  
 \* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
Date : 05/01/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
	<b>Subtotal</b>				830		\$351,090		\$ 1,130,730		\$ -		\$ -	\$ 1,481,820
<b>2.8 - Install 400 Area Power Feed to Air Samplers &amp; Meteorology Tower.</b>														
Includes - Meet w/PNNL for constructability review & tie-in connection process; lay-out work; survey areas inside 400 Area for installing aerial poles; & install 13.8KV main distribution breaker, sectionalizing switch, & 1,300 Lf of 4/0 ASCR Penguin aerial line on 45' Class #2 poles; then use existing 400 Area power feed lines from 351 to routing power back to the 400 Area's Air Sampling equipment and Meteorology Tower.														
149	Lineman Crew #1- Incl mobe to area; lay-out work; & survey area for pole installation.	1	Ls	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
150	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
151	Estimate Elect Tie-in at 400 Area - Incl 13.8KV distribution breaker, & sectionalizing switch w/wire, tubing, & conn - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,000	\$ 40,000	\$ 40,000
152	Lineman Crew #1- Incl placing hardware on std poles. Est 9-45' poles to be prepared for setting std hardware (sngl circuit).	9	Ea	5.0	45	\$ 423.00	\$ 19,035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,035
153	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 1 circuit per pole = 2 arms per pole x 9 pole = 18	18	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 5,472	\$ -	\$ -	\$ -	\$ -	\$ 5,472
154	Fuse Cut-Outs - Incl installation of hardware items - Est 1 at ea end	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
155	Poles - 45' Class #2 pole	9	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 8,461	\$ -	\$ -	\$ -	\$ -	\$ 8,461
156	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 9-45' std equipped pole to be placed.	9	Ea	5.0	45	\$ 501.00	\$ 22,545	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,545
157	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 1300' x 3 = 3900Lf of wire to be placed.	3,900	Lf	0.004	16	\$ 442.00	\$ 6,895	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,895
158	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 1,300Lf - 1,300 x 3-lines ea cir x 1 sys = 3,900Lf	3,900	Lf	0.0	0	\$ -	\$ -	\$ 1.13	\$ 4,411	\$ -	\$ -	\$ -	\$ -	\$ 4,411
159	Lineman Crew - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	30.0	30	\$ 545.00	\$ 16,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,350
160	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
	<b>Subtotal</b>				146		\$69,055		\$21,404		\$0		\$40,000	\$130,459

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
Date : 05/01/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
<b>2.9 - Install BP Pass-thru Line &amp; Tower North of 300 Area</b>														
Includes - Meet w/BP for constructability review & tie-in connection process; lay-out work; survey area; clear & grub area; drill 3'dia x 8'-deep holes for stanchion legs; install sono tubes, rebar, fill w/concrete, & place 4-j-bolt leg fasteners in ea pier; pre-fab new quad support stanchion for Dead End Pass Thru & 45 deg turn to the west at site; install new Dead End Pass Thru Stanchion; install 4 new 80' poles for west leg tie-in tying into BP system; install wire; & support BP for final tie-in to their system.														
161	Lineman Crew #1- Incl mobe to area; lay-out work; & survey area for pole installation.	1	Ls	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
162	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
163	Estimate Quad Dead End Stanchion - Est based on conversations w/Flour Hanford, WCH Eng, & Outside Vendors.	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 35,000	\$ 35,000	\$ 35,000
164	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-75' poles to be prepared for placing hardware config (single circuit) for elect tie in to existing BP sys.	2	Ea	5.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
165	Hardware - Incl cross arm, attachment bolts, arrestors, & misc hardware - Est 20' x4"x6" cross arm 3 wire set-up.	2	Ea	0.0	0	\$ -	\$ -	\$ 1,200	\$ 2,400	\$ -	\$ -	\$ -	\$ -	\$ 2,400
166	Poles - 75' Class 2 poles	4	Ea	0.0	0	\$ -	\$ -	\$ 1,567	\$ 6,268	\$ -	\$ -	\$ -	\$ -	\$ 6,268
167	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 4-75' poles to be placed.	4.0	Ea	8.0	32	\$ 501.00	\$ 16,032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,032
168	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 350	\$ 350	\$ -	\$ -	\$ -	\$ -	\$ 350
169	Lineman Crew - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 250' of wire to be placed.	350	Lf	0.06	20	\$ 442.00	\$ 8,840	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,840
170	Wire - Est 350KCML x 3/c per circuit & misc items - Est distance approx 350Lf - 350 x 3-lines ea cir x 3 sys = 1050Lf	1,050	Lf	0.0	0	\$ -	\$ -	\$ 2.86	\$ 2,999	\$ -	\$ -	\$ -	\$ -	\$ 2,999.80
171	Lineman Crew #4 - Support BP Tie-ins - Allowance for performing tie-in; & completing system test & approval.	1	Ls	30.0	30	\$ 545.00	\$ 16,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,350
172	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					102		\$49,682		\$12,766		\$0		\$35,000	\$97,448



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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
Date : 05/01/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
<b>2.10 - Install North End Power Feed Circuits L6, L4, &amp; L1</b>														
Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; perform tie-ins; & test service. Assume all D&D activities on existing system is captured in other budgets.														
173	Lineman Crew - Crew #1 - Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ea	5.0	5	\$ 423.00	\$ 2,115	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,115
174	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
175	Lineman Crew #1- Incl placing hardware on poles. Est 3-60' poles to be prepared for setting w/STD hardware config.	3	Ea	5.0	15	\$ 423.00	\$ 6,345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,345
176	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms = 2 x 3 circuits = 6 per pole x 3 poles = 18	18	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 3,557	\$ -	\$ -	\$ -	\$ -	\$ 3,557
177	Poles - 60' Class 2 poles	3	Ea	0.0	0	\$ -	\$ -	\$ 1,254	\$ 3,761	\$ -	\$ -	\$ -	\$ -	\$ 3,761
178	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-60' poles to be prepared for setting NON-STD hardware config (triple-circuit) for elect tie in to existing sys.	2	Ea	20.0	40	\$ 423.00	\$ 16,920	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,920
179	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms = 2 x 3 circuits = 6 per pole x 2 poles = 12	12	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 3,648	\$ -	\$ -	\$ -	\$ -	\$ 3,648
180	Poles - 60' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,254	\$ 2,507	\$ -	\$ -	\$ -	\$ -	\$ 2,507
181	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 5-60' std equipped poles to be placed.	5.0	Ea	6.7	33.5	\$ 501.00	\$ 16,784	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,784
182	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
183	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 800' x 3 x 3 sys = 7200Lf of wire to be placed.	7,200	Lf	0.004	29	\$ 442.00	\$ 12,730	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,730
184	Wire - Est 397.5 & 4/0 type x 3/c per circuit & misc items - Est distance approx 800 Lf - 800 x 3-lines ea cir x 3 sys = 7,200Lf	7,200	Lf	0.0	0	\$ -	\$ -	\$ 1.83	\$ 13,176	\$ -	\$ -	\$ -	\$ -	\$ 13,176.00
185	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	10.0	10	\$ 545.00	\$ 5,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,450
186	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					132		\$60,343		\$ 27,648		\$ -		\$ -	\$87,991

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
 \* Rework Power Feeds At 5 Loc. Inside 300 Area  
 \* Route Power From SHC SubSt. To 300 Area South  
 \* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
 Date : 05/01/07  
 By : Dan Jakubek  
 Rev No : 0  
 Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
<b>2.11 - Install Bio-Pump Feed Service</b>														
Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; pull existing wire from existing duct bank/s; install new wire in duct bank/s; perform tie-ins; & test service.														
187	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ea	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
188	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
189	Lineman Crew #1- Incl placing hardware on poles. Est 2-45' poles to be prepared for setting w/STD hardware config.	2	Ea	5.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
190	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 1,581	\$ -	\$ -	\$ -	\$ -	\$ 1,581
191	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
192	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
193	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 2,432	\$ -	\$ -	\$ -	\$ -	\$ 2,432
194	Fuse Cut-Outs - Incl pole mount pull-dwn swt, & mounting items - Est 1 per tie-in pole x 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
195	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
196	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 4-45' poles to be placed.	4.0	Ea	5.0	20	\$ 501.00	\$ 10,020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,020
197	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
198	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 600' x 3 = 1800Lf of wire to be placed.	3,600	Lf	0.004	14	\$ 442.00	\$ 6,365	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,365
199	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 600 Lf - 600 x 2-lines ea cir x 2 sys = 3,600Lf	3,600	Lf	0.0	0	\$ -	\$ -	\$ 1.47	\$ 5,288	\$ -	\$ -	\$ -	\$ -	\$ 5,288.40

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RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
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\* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
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Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
200	Lineman Crew #1- Installing 13.8 Transformer & Vault - Incl digging hole for vault; placing precaste concrete vault; setting excessed transformer on vault; replacing existing transformer fluid w/correct oil; & checking/testing transformer. Est mat'l allowance	1	Ls	20.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
201	Transformer Vault & Transformer - Est vault excavation; place compacted gravel in bottom; install vault, grd rod/s, lid, & transformer; & replace transformer cooling fluid. Assume transformer is existing at site & no new purchase required.	1	Ls	0.0	0	\$ -	\$ -	\$ 8,500	\$ 8,500	\$ -	\$ -	\$ -	\$ -	\$ 8,500
202	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	30.0	30	\$ 545.00	\$ 16,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,350
203	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
204	Electrician Crew #5 - Est pulling existing wire from duct bank - Incl removing wire & placing in disposal cans. Est 400' of wire. Assume pulling 2 bundles of three wires. Est 1-day per bundle.	2,400	Lf	0.014	33	\$ 335.00	\$ 11,176	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,176
205	Electrician Crew #5 - Est pulling new wire into existing duct bank - Incl installing wire & placing in disposal cans. Est 400' of wire x 3 x 2 sys = 2400Lf. Assume pulling in 2 bundles of three wires.	2,400	Lf	0.014	33	\$ 335.00	\$ 11,176	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,176
206	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 400Lf - 400 x 3-lines ea cir x 2 sys = 2,400Lf	2,400	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 72,000	\$ -	\$ -	\$ -	\$ -	\$ 72,000.00
207	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
<b>Subtotal</b>					191		\$80,466		\$97,122		\$0		\$0	\$177,588
<b>2.12 - Install 325 Secondary Feed Service</b>														
Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; pull existing wire from existing duct bank/s; install new wire in duct bank/s; perform tie-ins; & test service.														
208	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ea	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
209	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
Date : 05/01/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
210	Lineman Crew #1- Incl placing hardware on poles. Est 2-45' poles to be prepared for setting w/STD hardware config.	2	Ea	5.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
211	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 1,581	\$ -	\$ -	\$ -	\$ -	\$ 1,581
212	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
213	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
214	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 2,432	\$ -	\$ -	\$ -	\$ -	\$ 2,432
215	Fuse Cut-Out - Incl pole mount installation hardware- Est 1 per tie-in pole x 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
216	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
217	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 4-45' std equipped poles to be placed.	4.0	Ea	5.0	20	\$ 501.00	\$ 10,020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,020
218	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
219	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 450' x 3 = 1350Lf of wire to be placed.	1,350	Lf	0.004	5	\$ 442.00	\$ 2,387	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,387
220	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 450 Lf - 450 x 3-lines x 1 sys = 1,350Lf	1,350	Lf	0.0	0	\$ -	\$ -	\$ 1.47	\$ 1,983	\$ -	\$ -	\$ -	\$ -	\$ 1,983
221	Lineman Crew #1- Installing 13.8 Transformer & Vault - Incl digging hole for vault; placing precaste concrete vault; setting excessed transformer on vault; replacing existing transformer fluid w/correct oil; & checking/testing transformer. Est mat'l allowance	1	Ls	20.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
222	Transformer Vault & Transformer - Est vault excavation; place compacted gravel in bottom; install vault, grd rod/s, lid, & transformer; & replace transformer cooling fluid. Assume transformer is existing at site & no new purchase required.	1	Ls	0.0	0	\$ -	\$ -	\$ 8,500	\$ 8,500	\$ -	\$ -	\$ -	\$ -	\$ 8,500

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
\* Rework Power Feeds At 5 Loc. Inside 300 Area  
\* Route Power From SHC SubSt. To 300 Area South  
\* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
Date : 05/01/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR			MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL	
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost		Subtotal Sub
223	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	30.0	30	\$ 545.00	\$ 16,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,350
224	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
225	Electrician Crew #5 - Est pulling existing wire from duct bank - Incl removing wire & placing in disposal cans. Est 400' of wire. Assume pulling 2 bundles of three wires. Est 1-day per bundle.	2	Ea	10.0	20	\$ 335.00	\$ 6,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,700
226	Electrician Crew #5 - Est pulling new wire into existing duct bank - Incl installing wire & placing in disposal cans. Est 300' of wire x 3 x 2 sys = 1,800Lf. Assume pulling in 2 bundles of three wires.	2	Ea	10.0	20	\$ 335.00	\$ 6,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,700
227	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 300Lf - 300 x 3-lines ea cir x 2 sys = 1,800Lf	1,800	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 54,000	\$ -	\$ -	\$ -	\$ -	\$ 54,000
228	Electrician Crew #6 - Install new duct bank from north west corner of bldg to center of west side. Incl excavating; placing 2-4" PVC elect conduit lines & spacers; pour concrete around conduit; & backfill w/compaction. Est 240' of new duct bank	240	Lf	0.17	40	\$ 358.00	\$ 14,320	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,320
229	PVC Elect Conduit 2-4" Sch 40 Lines w/Spacers - incl conduit; pour concrete around conduit; & backfill w/compaction. Est 240' of new duct bank	240	Lf	0.0	0	\$ -	\$ -	\$ 22.62	\$ 5,429	\$ -	\$ -	\$ -	\$ -	\$ 5,429
230	Electrician Crew #5 - Est pulling new wire into new duct bank - Est 240' of wire x 3 x 1 sys = 720Lf. Assume pulling in 1 bundle of three wires.	720	Lf	0.014	10	\$ 335.00	\$ 3,353	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,353
231	Wire - Est 4/0 type x 3/c per circuit & misc items - Est distance approx 240Lf - 240 x 3-lines ea cir x 1 sys = 720Lf	720	Lf	0.0	0	\$ -	\$ -	\$ 30.00	\$ 21,600	\$ -	\$ -	\$ -	\$ -	\$ 21,600
232	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
<b>Subtotal</b>					205		\$85,209		\$102,845		\$0		\$0	\$188,055
<b>2.13 - Install West Side Secondary Feed Service</b>														
Includes - Lay-out work; survey ground; install hardware on poles; install poles; install wire on poles; perform tie-ins; & test service.														

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RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
 \* Rework Power Feeds At 5 Loc. Inside 300 Area  
 \* Route Power From SHC SubSt. To 300 Area South  
 \* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
Date : 05/01/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
233	Lineman Crew #1- Incl mobe to area; lay-out work; & survey ground for pole installation.	1	Ls	10.0	10	\$ 423.00	\$ 4,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,230
234	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
235	Lineman Crew #1- Incl placing hardware on poles. Est 3-45' poles to be prepared for setting w/STD hardware config.	3	Ea	5.0	15	\$ 423.00	\$ 6,345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,345
236	Hardware - Incl cross arms, arrestors, etc - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 3 poles = 12	12	Ea	0.0	0	\$ -	\$ -	\$ 198	\$ 2,371	\$ -	\$ -	\$ -	\$ -	\$ 2,371
237	Poles - 45' Class 2 poles	3	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 2,820	\$ -	\$ -	\$ -	\$ -	\$ 2,820
238	Lineman Crew #1- Incl placing hardware on transition poles. Est 2-45' poles to be prepared for setting hardware config (dbl circuit) for elect tie in to existing sys.	2	Ea	10.0	20	\$ 423.00	\$ 8,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,460
239	Hardware - Incl cross arms, arrestors, transition hardware - Est dbl 6' arms x 2 circuits per pole = 4 per pole x 2 poles = 8	8	Ea	0.0	0	\$ -	\$ -	\$ 304	\$ 2,432	\$ -	\$ -	\$ -	\$ -	\$ 2,432
240	Fuse Cut-Out - Incl pole mount installation hardware- Est 1 per tie-in pole x 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 1,155	\$ 2,310	\$ -	\$ -	\$ -	\$ -	\$ 2,310
241	Poles - 45' Class 2 poles	2	Ea	0.0	0	\$ -	\$ -	\$ 940	\$ 1,880	\$ -	\$ -	\$ -	\$ -	\$ 1,880
242	Lineman Crew #2 - Installing poles - Incl augering holes; & placing poles. Est 5-45' std equipped poles to be placed.	5.0	Ea	5.0	25	\$ 501.00	\$ 12,525	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,525
243	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ 250
244	Lineman Crew #3 - Installing Wire - Incl placing wire on pole and preparing for tie-in activities. Est 3600' of wire to be placed.	3,600	Lf	0.004	14	\$ 442.00	\$ 6,365	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,365
245	Wire - Est 397.5 type x 3/c per circuit & misc items - Est distance approx 600 Lf - 600 x 3-lines ea cir x 2 sys = 3,600Lf	3,600	Lf	0.0	0	\$ -	\$ -	\$ 1.47	\$ 5,288	\$ -	\$ -	\$ -	\$ -	\$ 5,288.40
246	Lineman Crew #4 - Perform Tie-ins - Incl prep for tie-in; performing tie-in; & completing system test & approval.	1	Ls	20.0	20	\$ 545.00	\$ 10,900	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,900
247	Mat'l Allowance - Est sml tools & misc.	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					104		\$48,825		\$18,102		\$0		\$0	\$66,927

PROPRIETARY INFORMATION

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WASHINGTON CLOSURE HANFORD, INC.  
ESTIMATE PRICING SHEET  
RIVER CORRIDOR CLEAN UP PROJECT  
RICHLAND, WASHINGTON

**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
 \* Rework Power Feeds At 5 Loc. Inside 300 Area  
 \* Route Power From SHC SubSt. To 300 Area South  
 \* Install Transformers in 300 Area From 12.74 to 13.8KVA

Estimate No : 1004-Elect-Opt#5  
Date : 05/01/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
<b>2.14 - Fire Suppression System</b>														
- Currently Sand Hill Sub-Station will NOT require changes or additions to their Fire Suppression system, therefore no cost is placed in the estimate. - Also the 300 Area will NOT require changes or additions to its existing fire suppression systems to cover electrical changes. This is due to transformers purchased or re-worked will be filled with approved "High Flash Point" type mineral oil, and other equipment purchased will be classified as "Out-Door Rated" requiring no fire protection. Therefore no cost will be added to this Option for Fire Protection.														
248	Sand Hill sub-Station Fire Protection Costs - There will be no costs for fire protection at this time and current requirements are meet according to the City of Richland Fire Marshall.	0	Per	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
249	300 Area Electrical Equipment Fire Protection Costs - There will be no costs for fire protection at this time and current requirements are meet according to the Flour Hanford Fire Marshall.	0	Per	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal</b>					0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>2.15 - Clean Up Area, Demobe, &amp; Close-out Project</b>														
Includes - Cleaning up area; demobe equipment; & close-out proj at site.														
250	Engineer - Close-out various items, incl paper wk, & meet w/WCH & Flour Hanford for site close-out.	1	Per	20.0	20	\$ 69.88	\$ 1,398	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,398
251	Superintendent - Close-out various items, incl paper wk, & meet w/WCH & Flour Hanford for site close-out.	1	Per	20.0	20	\$ 59.53	\$ 1,191	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,191
252	Lineman Foreman - Support Demobe activities - Est 5hrs ea site	1	Crft	20.0	20	\$ 61.04	\$ 1,221	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,221
253	Lineman - 4 man crew - Demobe - Est 5hrs ea site	4	Crft	20.0	80	\$ 55.79	\$ 4,463	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,463
254	Lineman Bucket Truck - w/Man Bucket Boom, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295
255	Lineman Pole Auger Truck - w/Man Boom, Pole Auger, & Tool Storage on Sides, 6x4, 400 Hp, 70000 lbs max, Diesel, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 59.04	\$ 295	\$ -	\$ -	\$ 295
256	Lineman Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400
257	Truck Tractor - Misc Mod. GVW >60000 Lbs, 6x4 / 400 Hp, Diesel, Max GVW 75000, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 50.82	\$ 254	\$ -	\$ -	\$ 254

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**TITLE: 300 Area Utility Replacement Project - Electrical - Option #5**  
**SUBJECT: 2.0 Two Lines From Richland / Buildings Transformers**  
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Estimate No : 1004-Elect-Opt#5  
Date : 05/01/07  
By : Dan Jakubek  
Rev No : 0  
Date : 05/16/07

Item No.	DESCRIPTION	Qty	Unit	LABOR				MATERIAL		CONST. EQUIPMENT		SUB CONTRACT		TOTAL
				Unit MHR Rate	MHRS	Labor Rate \$/MHR	Subtotal Labor	Unit Cost	Subtotal Mat'l	Unit Cost	Subtotal Equip.	Unit Cost	Subtotal Sub	
258	Float Trailer High - Misc Model, 40' Lg, 8 tires, Flatbed, 2 axle / 40 ton, Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 8.18	\$ 41	\$ -	\$ -	\$ 41
259	Electrician Foreman - Support Demobe activities	1	Crft	10.0	10	\$ 53.75	\$ 538	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 538
260	Electrician - Crew of 4 - Support Demobe activities	4	Crft	5.0	20	\$ 50.34	\$ 1,007	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,007
261	Electrician Utility Truck - w/Tool Storage on Sides, 6x4, 250 Hp, 35000 lbs max, Diesel, Yr/04 - Est 2 Trucks	10	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 400	\$ -	\$ -	\$ 400
262	Operator - Support equip removal	1	Ea	10.0	10	\$ 38.94	\$ 389	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 389
263	Tractor Loader Backhoe - Case 580M Series-2, 4WD, Fixed, Diesel, Dig Depth 14-15', Yr/04	5	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 23.56	\$ 118	\$ -	\$ -	\$ 118
264	Labor - Support mat'l deliveries	3	Ea	20.0	60	\$ 32.91	\$ 1,975	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,975
265	Fuel Truck - On-Highway Tanker - Misc Mod, 250 Hp, 4000 Gal, 14000 Lbs, 4x2, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 40.01	\$ 120	\$ -	\$ -	\$ 120
266	Generator - Misc Mod, 10000 Watts, 16 Hp, Diesel, Yr/04	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 9.02	\$ 27	\$ -	\$ -	\$ 27
267	Misc Sml Equip - Allowance for sml compactors, wire pullers, etc	3	Hrs	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 45.00	\$ 135	\$ -	\$ -	\$ 135
268	Office Trailer - Field, Enclosed 8'w x 32'l - Yr/04 - \$ Allowance for disconnect & deliver back to Vendor	1	Ls	0.0	0	\$ -	\$ -	\$ -	\$ -	\$ 750	\$ 750	\$ -	\$ -	\$ 750
269	Materials for Mobe support - Allowance	1	Ls	0.0	0	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ 500
<b>Subtotal</b>					240		\$12,181		\$ 500		\$ 2,835		\$ -	\$15,516
<b>Total All Activity Segments</b>					7,501		1,650,280		1,711,905		163,740		193,479	3,719,403



**APPENDIX C**  
**300 AREA ELECTRICAL UTILITY DECISION MEETING**





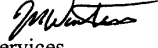
**Interoffice Memorandum**

134371

TO: S. E. Dieterle L1-04, w/a  
D. J. McBride H4-15, w/a

DATE: May 22, 2007

COPIES: See Below

FROM: J. N. Winters   
Engineering Services  
H4-20/375-9432

SUBJECT: SUMMARY OF DECISION MEETINGS FOR ELECTRICAL OPTIONS 300 AREA  
UTILITY RELOCATION PROJECT

Decision meetings were held on May 16 and May 17, 2007 to review and rank electrical service options as part of the 300 Area Utility Relocation Project. At the May 16 meeting, the Electrical Discipline Team and the Utility Relocation Project Core Team reviewed the pros and cons of the five options for providing reliable electrical service to the retained facilities in the 300 Area. An interoffice memorandum prepared by Arnold Gutmanis provided a description and cost estimate for each option. The IOM and its option maps were used as a basis of discussion of the options. A listing of the selection criteria was also distributed at the meeting.

A second meeting was called for the morning of May 17 to continue the decision process. A key decision by the team early in the May 17 meeting was elimination of Options 4 and 5 from further consideration. Options 4 and 5 both have an estimated capital cost of more than \$5M exceeding the threshold that would cause the project to require line item funding. This cost level and its associated lengthy and uncertain funding process caused the team to assign a grade of "No-Go" to Options 4 and 5 for the schedule criteria. Due to this grade, those options were dropped from further consideration.

Continuing their grading process, the attendees discussed the assignment of a grade of high, medium or low (H, M or L) to indicate how well each of the three remaining options met each selection criterion. A spreadsheet (see attached two pages) was used to document the grade assignments. The attendees also identified a weighting factor for each criterion. Using the weighting factors assigned and a score associated with each grade (see lower left corner of ranking spreadsheet for weighting factor and grade scores), a weighted score was calculated for each option. After the initial grading effort and addition discussion, the grading for Option 2 was increased to M+ for three criteria where the team felt that the grade was above an M but below H.

The resulting weighted scores for each of the three options were compared against the total possible points. Option 1 was ranked highest (75% of possible points) followed by Options 2 and 3 with 71% and 41% of the possible points. The recommended option, Option 1, involves reuse of the existing 351 Substation. The estimated cost for Option 1 is approximately \$1.3M less expensive than the next closest option.

JNW:ldh

Attachment: 300 Area Utility Relocation – Electrical Options Worksheet

Meeting Attendees

S. I Bennion H7-21, w/a  
D. E. Dieterle L1-04, w/a  
G. A. Edwards E6-27, w/a  
R. G. Egge X5-50, w/a  
R. Gerk J2-18, w/a  
R. F. Guercia A3-04, w/a  
A. V. Gutmanis L1-01, w/a  
D. J. Jakubek H4-15, w/a  
R. N. Krekel A3-04, w/a  
D. A. Larson J2-09, w/a  
C. MacDonald J2-45, w/a  
G. M. MacFarlan L6-06, w/a  
D. J. McBride H4-15, w/a  
A. G. Minister J2-38, w/a  
M. E. Olson J2-09, w/a  
J. Turner K9-42, w/a

Copies

S. Baker S4-12, w/a  
C. E. Carlson S4-12, w/a  
T. H. Leone L1-04, w/a  
D. J. Tollefson E6-29, w/a  
Document Control H4-11, w/a

300 Area Utility Relocation - Electrical Options Worksheet

SELECTION CRITERIA (with related considerations listed below it)	Criteria Weighting Factor*					
		Option #1 - Utilize 351 Substation	Option #2 - Replace 351 Substation with new Substation west side of Stevens	Option 3 - New City of Richland feeder and convert existg 400 Area maintenance line into a feeder	Option 4 - City of Richland provides 13.8 KV source from Sandhill Crane substation.	Option 5 - City of Richland provides 12.5KV sources from Sandhill Crane substation and install new transformers
<b>Meets functional requirements</b>	0	H	H	H	N/A	N/A
<b>Acceptable to regulators</b>	0	H	H	H	N/A	N/A
Impact on identified WIDS sites. Is there an opportunity for valid mitigation of the impact. Impact on TPA milestones and can they be mitigated What is the overall level of acceptance by the regulators?						
<b>Meets schedule constraints</b>	0	H	H	H	No-Go	No-Go
Does the option cross a \$5M threshold for capital line item? Can construction be sequenced to support completion of the project?		No	No	No	Yes	Yes
<b>Best Value to the Government</b>	5	H	M+	L		
Initial construction cost Future O&M cost						
<b>Reasonable expectation for reliable utility system during 20 yrs ops of retained fac.</b>	3	M	H	M		
<b>Minimizes safety and health risk</b>	5	H	M+	L		
<b>Minimizes impact to cleanup activities</b>	4	M	H	H		
<b>Provides for Continuity of Operations for 300 Area Research and Development</b>	4	H	M+	M		

Unweighted score =  
Weighted score =  
% of total available points =

Legend:  
\*Weighting factor: 5 = Related to project safety or project cost; 4 = Compliance related issue and completion of cleanup mission; 3 = Critical issue for meeting RCC contract commitment; 2 = Technical issue; 1 = issue is non-critical but nice to have; 0 = a GO or NO-GO decision

Scoring: L=15, L+=27, M=39, M+=63, H=75, H+=87, No-Go=X

File name = Ranking worksheet for 300 Area Electrical Options FINAL.XLS

300 Area Utility Relocation - Electrical Options Worksheet

Option #1 - Utilize 351 Substation  
 Option #2 - Replace 351 substation with new substans with west side of  
 Option 3 - New City of Richland feeder and convert existing 400 Area feeder  
 Option 4 - City of Richland provides 13.8kV source substation Crane  
 Option 5 - City of Richland provides 12.8kV source substation and install new transformers

SELECTION CRITERIA (with related considerations listed below it)	Criteria Weighting Factor*	Option #1	Option #2	Option #3	Option #4	Option #5
<b>Meets functional requirements</b>	0	87	87	87	N/A	N/A
<b>Acceptable to regulators</b> Impact on identified WIDS sites. Is there an opportunity for valid mitigation of the impact. Impact on TPA milestones and can they be mitigated What is the overall level of acceptance by the regulators?	0	87	87	87	N/A	N/A
<b>Meets schedule constraints</b> Does the option cross a \$5M threshold for capital line item? Can construction be sequenced to support completion of the project?	0	87	87	87	No-Go	No-Go
<b>Best Value to the Government</b> Initial construction cost Future O&M cost	5	87	63	15	N/A	N/A
<b>Reasonable expectation for reliable utility system during 20 yrs ops of retained fac.</b>	3	51	87	51	N/A	N/A
<b>Minimizes safety and health risk</b>	5	87	63	15	N/A	N/A
<b>Minimizes impact to cleanup activities</b>	4	51	87	87	N/A	N/A
<b>Provides for Continuity of Operations for 300 Area Research and Development</b>	4	87	63	51	N/A	N/A
	Unweighted score =	624	624	480	#VALUE!	#VALUE!
	Weighted score =	1575	1491	855	#VALUE!	#VALUE!
	% of total available points =	75%	71%	41%	#VALUE!	#VALUE!

**Legend:**  
 \*Weighting factor: 5 = Related to project safety or project cost; 4 = Compliance related issue and completion of cleanup mission; 3 = Critical issue for meeting FCC contract commitment; 2 = Technical issue; 1 = issue is non-critical but nice to have; 0 = a GO or NO-GO decision  
 Scoring: L=15, L+=27, M=39, M+=51, M+=63, H=75, H+=87, No-Go=X

## **APPENDIX D**

### **300 AREA SANITARY AND FIRE PROTECTION WATER DECISION MEETING**





# **WCH** Washington Closure Hanford *Meeting Minutes*

134178

**SUBJECT** SUMMARY OF DECISION MEETING FOR WATER SYSTEM OPTIONS 300 AREA  
UTILITY RELOCATION PROJECT

**TO** Distribution

**FROM** John N. Winters *mnw*

**DATE** June 12, 2007

**ATTENDEES**

S. I. Bennion H7-21, w/a  
J. W. Bixler J2-45, w/a  
S. R. Cassidy J2-45, w/a  
R. Gerk J2-18, w/a  
R. E. Hammond L1-04, w/a  
B. E. Hill A5-17, w/a  
R. D. Lichfield H4-25, w/a  
C. MacDonald J2-45, w/a  
G. M. MacFarlan L6-06, w/a  
D. J. McBride H4-15, w/a  
P. McKenna S3-96, w/a  
A. G. Minister J2-38, w/a  
D. J. Ortiz A3-04, w/a  
A. K. Smith J2-38, w/a  
J. Turner K9-42, w/a  
K. M. Walterskirchen H4-20, w/a  
D. C. West A5-17, w/a  
B. W. Wilcox H4-15, w/a  
J. N. Winters H4-20, w/a

**DISTRIBUTION**

Attendees  
D. E. Dieterle L1-04, w/a  
R. G. Egge X5-50, w/a  
R. F. Guercia A3-04, w/a  
D. J. Tollefson E6-29, w/a  
D. M. Yasek L1-07, w/a  
Document Control H4-11

A decision meeting was held on May 23, 2007 to review and rank water system modification options as part of the 300 Area Utility Relocation Project. The Water Discipline Team and the Utility Relocation Project Core Team discussed the pros and cons of the four options for providing reliable water service to the retained facilities in the 300 Area. A summary scope description of the major components for each option was presented in the conceptual level cost estimate prepared by Bruce Wilcox. Copies of the cost estimate were distributed at the meeting. Color-coded maps showing the location of facilities associated with each option were also distributed.

Following the overview presentation, the meeting attendees discussed the selection criteria and weighting factors. They decided that selection criteria and weighting factors as used during the electrical utilities decision meeting should also be used for ranking the water system options.

From their discussion of each option, the attendees arrived at a consensus of a grade between high and low (available grades included H, H-, M+, M, M-, L+ or L). The letter grade indicated how well each option

Distribution  
Page 2

met the selection criterion. A spreadsheet (Attachment 1) was used to document the grade assignments. Using the weighting factors assigned and a score associated with each grade (see lower left corner of ranking spreadsheet for weighting factor and grade scores), a weighted score was calculated for each option.

The resulting weighted scores for each of the water source options were compared against the total possible points. Option 1 was ranked highest (81% of possible points) followed by Options 4, 3 and 2 with 65%, 58% and 55% of the possible points. The recommended option, Option 1, involves installation of a new booster pump station and a new water supply main. These new facilities will replace the 382 Complex. The estimated construction cost for Option 1 is approximately \$0.5 M higher than the lowest construction cost option (Option 2). However, it is estimated that Option 1 will have significantly lower annual operation and maintenance (O&M) costs. When construction and O&M are considered together, Option 1 is lowest cost option.

For reference, a detailed description and analysis of the four waste system options is included with this IOM as Attachment 2. This analysis was prepared by Don McBride/Polestar. Also included are Attachments 3 and 4 which are cost estimate information and water system option schematics. This information was used by the water discipline team during the evaluation of the options. The cost estimates were prepared by Bruce Wilcox/WCH. The schematic development was lead by Karl Walterskirchen/White Shield Inc.

- Attachments:
1. 300 Area Utility Relocation – Water Options Worksheet (2 pages)
  2. 300 Area Water System Options Analysis (9 pages)
  3. Cost Estimate Summary (2 pages) and Cost Estimate for Option 1 (2 pages)
  4. Water System Alternatives – Schematics (4 pages)

ATTACHMENT 1

300 AREA UTILITY RELOCATION – WATER OPTIONS WORKSHEET

(consisting of 2 pages)

300 Area Utility Relocation - Water Options Worksheet

*Option #1 - Install new booster pump station with connection to two water supply mains (1 new & 1 existg)*  
*Option #2 - Rehab and reuse of 382 Complex and 300 Area water tanks*  
*Option 3 - Rehab & reuse diesel drive pump/house and 300 Area tanks. Install new sanitary water pump station.*  
*Option 4 - Install new booster pump station and new TMC tank; use existg water supply main.*

SELECTION CRITERIA (with related considerations listed below it)	Criteria Weighting Factor*				
<b>Meets functional requirements</b>	0	H	H	H	H
<b>Acceptable to regulators</b>	0	H	H	H	H
Impact on identified WIDS sites. Is there an opportunity for valid mitigation of the impact. Impact on TPA milestones and can they be mitigated What is the overall level of acceptance by the regulators?					
<b>Meets schedule constraints</b>	0	H	H	H	H
Does the option cross a \$5M threshold for capital line item? Can construction be sequenced to support completion of the project?					
<b>Best Value to the Government</b>	5	M+	M	M	L+
Initial construction cost		M	H	H	L
Future O&M cost		H	L	L	M
<b>Reasonable Expectation for reliable utility system during expected 20 yrs ops of retained</b>	3	H	L	M	H-
<b>Minimizes safety and health risk</b>	5	H	M	M	M+
<b>Minimizes impact to cleanup activities</b>	4	H	H-	H-	H
<b>Provides for Continuity of Operations for 300 Area Research and Development</b>	4	H	H-	M+	H

Unweighted score =

Weighted score =

% of total available points =

**LEGEND:**

\*Weighting factor: 5 = Related to project safety or project cost; 4 = Compliance related issue and completion of cleanup mission; 3 = Critical issue for meeting RCC contract commitment; 2 = Technical issue; 1 = issue is non-critical but nice to have; 0 = a GO or NO-GO decision

Scoring: L=15, L+=27, M=39, M+=51, M+=63, H=75, H=87, No-Go=X

300 Area Utility Relocation - Water Options Worksheet

Option #1 - Install new booster pump station with connection to two water supply mains (1 new & 1 exist)  
 Option #2 - Rehab and reuse of 302 Complex and 300 Area water tanks.  
 Option 3 - Rehab & reuse diesel drive pump house and 300 Area tanks. Install new sanitary water pump station.  
 Option 4 - Install new booster pump station and new TMC tank use existg water supply main.

SELECTION CRITERIA (with related considerations listed below it)	Criteria Weighting Factor*	Option #1	Option #2	Option 3	Option 4
<b>Meets functional requirements</b>	0	87	87	87	87
<b>Acceptable to regulators</b> Impact on identified WIDS sites. Is there an opportunity for valid mitigation of the impact. Impact on TPA milestones and can they be mitigated What is the overall level of acceptance by the regulators?	0	87	87	87	87
<b>Meets schedule constraints</b> Does the option cross a \$5M threshold for capital line item? Can construction be sequenced to support completion of the project?	0	87	87	87	87
<b>Best Value to the Government</b> Initial construction cost Future O&M cost	5	63	51	51	27
<b>Reasonable Expectation for reliable utility system during expected 20 yrs ops of retained</b>	3	87	15	51	75
<b>Minimizes safety and health risk</b>	5	87	51	51	63
<b>Minimizes impact to cleanup activities</b>	4	87	75	75	87
<b>Provides for Continuity of Operations for 300 Area Research and Development</b>	4	87	75	63	87
Unweighted score =		672	528	552	600
Weighted score =		1707	1155	1215	1371
% of total available points =		81%	55%	58%	65%

**LEGEND:**  
 \*Weighting factor: 5 = Related to project safety or project cost; 4 = Compliance related issue and completion of cleanup mission; 3 = Critical issue for meeting RCC contract commitment; 2 = Technical issue; 1 = issue is non-critical but nice to have; 0 = a GO or NO-GO decision

Scoring: L=15, L+=27, M=39, M+=51, M+=63, H=75, H+=87, No-Go=X

ATTACHMENT 2

300 AREA WATER SYSTEM OPTIONS ANALYSIS

(consisting of 9 pages)

300 Area Water System Modifications Options Analysis  
Prepared by D. J. McBride/Polestar  
May 2007

## 1.0 Background

The existing water supply to the 300 Area consists of a 16" main from the City of Richland that supplies water to 382-C & 382-D tank at about 50 – 60 psi. The 382-D tank has 6" and 12" level control valves to maintain level. The 382-C tank can be filled manually. The 382-C and 382-D tanks supply about 20 psi positive suction head to the pumps in 382. The pumps in 382 then boost the pressure to about 120 psi, and distribute the water via looped underground piping systems throughout the 300 Area for potable (domestic) requirements as well as fire protection and process water uses. Modifications to the 300 Area water system are needed to accommodate the demolition of old 300 Area buildings and remediation of waste sites and to assure a reasonable expectation of service life to the facilities planned for extended operation (> 20 years).

Because of the fire protection role of the water supply system, the 300 Area water system needs to have built in redundancy so that a single failure of the water supply, pumps, or mains will not prevent water from being supplied to the system for fire suppression. A looped fire protection water distribution system is required by DOE Orders wherever practicable.

The Water Sub-team (Team) proposed four options to keep the 300 Area water system operational for an additional 20 years. The options are as follows:

Option 1: Install a new pumping station with two water supply mains from the City of Richland (one new and one existing) along with system modifications per the functional design criteria defined in 0300X-DC-G0001. Unused water mains will be isolated from the system when the facilities they serve are razed.

Option 2: Keep the existing 300 Area water tanks and pumping station (382 Complex) along with the existing water system mains to serve the facilities that will remain in the 300 Area. Repair/rehabilitate components to meet a reasonable expectation of service life. Unused water mains will be isolated from the system when the facilities they serve are razed.

Option 3: Keep the existing 300 Area water tanks and diesel fire pumping station along with the existing water system mains to serve the facilities that will remain in the 300 Area. Install a new sanitary water pumping facility to replace the existing 382 Building. Repair/rehabilitate components to meet a reasonable expectation of service life. Unused water mains will be isolated from the system when the facilities they serve are razed.

Option 4: Install a new pumping station with a new ground storage tank (using the existing 16" water main from the City of Richland) along with system modifications per the functional design criteria defined in 0300X-DC-G0001. Unused water mains will be isolated from the system when the facilities they serve are razed.

The Team evaluated each of these options and included the results below. Preconceptual designs and cost estimates have been prepared for each option.

## 2.0 Option 1. New Pump Station and Water Main

In Option 1, a new pump station will be built south of Cypress Street in a location that would be outside of the WCH remediation areas. Building a new pump station would allow the old pumps and tanks in the 382 Complex to be removed and the waste site below it to be remediated, as well as the 382-BA boiler annex. The existing 16" City of Richland water main will be rerouted to directly feed the new pump station and a new 16" City of Richland water main will be installed along Stevens Drive to the new pump station. New water mains will be installed on Cypress Street and to supply the 3709-A & 3220 Buildings. Existing 8" water mains in the area of the 325 Building are over 50 years old and will be cleaned and lined. Approximately, 4700 feet of existing 8" water main will have to be retained to supply water to the retained facilities. Approximately 3500 feet of the pipe is assumed to require cleaning and mortar-lining and an additional ~1240 feet is assumed to be cleaned by "pigging" only. New sectional valves will be installed as needed.

The new pumphouse would consist of a skid-mounted pumping station with three electric and one diesel pump. Two electric booster pumps would be configured for domestic water flow rates and one would be sized for fire flows. The diesel pump would be sized for fire flows and would be separated from the electric pumps by a fire-rated wall to ensure redundant fire water supply. A test drain would be installed from the pump station to the stormwater swale on Cypress Street. A more detailed description of the design criteria for the pumphouse is provided in Appendix A.

If the 351-B electrical substation is to be retained as part of the electrical distribution options, the water supply mains to and fire hydrants at the substation may have to be retained also. Approximately 2000 feet of existing 8" water main may have to be retained to provide water to the substation for fire fighting and would be cleaned by pigging as part of the electrical option (not included in this water estimate). This portion of the distribution system would be the same for all four water options.

## 3.0 Option 2. Retain 382 Complex

Under this option, the 382 complex of buildings, tanks and piping would remain and would be used to supply water to the 300 Area distribution piping. The condition of the 382 complex equipment is mixed with some equipment in good condition and some in poor condition.

The 382 Fire Water Complex consists of the following components:

382 Pumphouse Building: a "T" shaped concrete block building, approximately 51 feet by 40.75 with a 5.5" thick flat concrete roof covered with tar and gravel. Building area is 1451 square feet.

The building contains the following electrical driven pumps:

- |                                    |                                       |
|------------------------------------|---------------------------------------|
| 1. 480 volts, VFD. 2050 GPM        | - out of service/broken shaft         |
| 2. 480 volts, constant, 1050 GPM   | - in service/running                  |
| 3. 2400 volts, constant, 3,000 GPM | - operable/available                  |
| 4. 2400 volts, constant, 1,600 GPM | - operable/available                  |
| 5. 480 volts, VFD. 2050 GPM        | - out of service/failed circuit board |



Total system water flow  
300A Water meter data.

	Annual gallons	Monthly average gallons
2002	83.7 M	7.0 M
2003	97.8 M	8.0 M
2004	92.8 M	7.7 M
2005	67.0 M	5.5 M
2006	82.0 M	6.8 M

The 382 Pumphouse building includes a suction header drawing from C&D tanks. The suction header lies in a trench in the floor of the 382 Building and each of the five electric pumps draws from the header. Condition of the suction header is suspect due to likely corrosion in the wet trench location.

The pumps feed into a discharge header running to 3 main loop header locations. The north and west loops each have pressure control valves that allow header pressure to be regulated when the system is running on constant flow pumps (the control valves are fully opened when running the Variable Frequency Drive pumps). The south loop has a manual control valve.

The 382 Building was built in the early 1950's and is currently in fair to poor condition. The building has cracks in the walls, but appears to be structurally sound. The roofing system is very degraded with several visible leaks and was categorized in 2003 as past due for evaluation but safe.

The pumps in the building are in fair condition; the suction/discharge piping is in poor condition and should be replaced. The pumps are oversized for the current 300 Area water demand and operation of the pumps in low flow situations (weekends) has led to degradation and premature pump failure of the variable speed pumps. Two of the pumps are powered with 2400 VAC motors and associated switchgear. Spare or replacement parts are not available for the high voltage equipment and the 300 Area 2400 VAC system is planned for demolition. The 382 Building also contains a chemical treatment room where liquid sodium hypochlorite is injected as needed into the tank water recirculation system to maintain free chlorine residual between 0.5 and 1.5 mg/L in the 382-C and D tanks.

382-B Diesel Pumphouse: The 382-B building is a 1709 square foot concrete building containing two 3,000 GPM, diesel driven fire pumps and the tank water heating and recirculation systems. The building and pumps were installed in 1993. Run time is a little over 200 hours on each engine, good overall condition. Suction header for the fire pumps comes from the bottom of the 382-C&D tanks and therefore can access the full capacity of both 382-C and 382-D tanks below the level of the standpipe (1.7 MGal total, 1.4MGal able to be reserved for fire protection if crosstie is closed). The heating and recirculation systems are in good condition, but need some repair.

382-BA Boiler Annex – Heat for the 382 Complex buildings, pits and water heating systems is provided by the 382-BA boiler annex building. The annex is a standard Johnson Controls, Inc. boiler annex, 599 square feet, containing a 200hp, 15psi steam boiler. The boilers and annex, which were constructed in the late 1990s, are in good condition.

382-C Tank. – The tank, which was built in 1979, is circular steel with a capacity of 900,000 gallons. The tank measures 60 ft. in diameter by 45 ft high. It is normally cross connected to

382D to maintain water level. Condition is fair with some corrosion above the waterline and is due for some cleaning and minor repairs.

382-D Tank – The tank, which was built in 1993, is circular steel with a capacity of 800,000 gallons. The tank measures 56.5 ft. in diameter by 45 ft high. City of Richland water supply is normally lined up to this tank via 6” and 12” automatic level control valves. The tank contains an internal 36 ft standpipe to supply the domestic water pump suction header in the 382 Building (which is currently cross-tied to the 382-B fire pump suction header). Condition is good and was recently refurbished with coatings.

Water distribution piping – potable and fire protection water is distributed throughout the 300 area via looped piping systems, primarily 8” with several larger and smaller legs.

The existing water distribution piping that would remain to feed the remaining 300 Area buildings would include about 7,000 feet of 1950’s era 8” pipe of which approximately 5800 feet would be scraped and mortar-lined and approximately 1240 feet would be cleaned by pigging. Sectional valves would be replaced as needed.

In this alternative, selected pumps and components in the 382 Complex would be replaced or repaired to establish a condition with a reasonable expectation of service life in support of a 20-year operating mission. The following activities would be performed:

382 Building:

Pumps/Piping:

Repair/Replace/Resize electric pumps/motors as appropriate to match anticipated flow requirements

Assess/Replace if necessary suction header

Assess/Replace if necessary discharge lines from pumps to header

Assess/Replace if necessary discharge header

Repair West loop header pressure control valve controller (Routine maintenance, planned by WCH)

Repair North loop header pressure control valve controller (Routine maintenance, planned by WCH)

Replace leaking valve on Pump #1 (Routine maintenance, planned by WCH)

Reroute sampler recirculation from hypochlorinator room back to tank 382C

Integrate controls for remote monitoring and operation of the water system (includes replacement of incompatible sensors and controllers)

Building Structure:

Install new roof membrane or pitched roof (verify condition of roof structure)

Repair siding/facing

Paint external and internal surfaces (including walls and piping)

382-B Building

Repair leaking recirculation pump (routine maintenance, planned by WCH)

382-C Tank

Clean and inspect tank and apply coating if necessary

Reroute tank discharge drain to stormwater discharge system

382-D Tank

Reroute tank discharge drain to stormwater discharge system

382-BA Building

None

Outside 382 Complex

Reroute 382 Complex process sewer manhole to sanitary sewer (part of wastewater team activities if 382 Complex is retained).

Water distribution piping

Clean/reline water distribution mains as described above

**4.0 Option 3. Retain Portions of 382 Complex With New Electric Pumphouse**

This option is the same as Option 2 except a new sanitary water pumping station would be built to replace the existing 382 pump house and pumps. New electric sanitary water pumps sized to supply the domestic water system demand for the remaining facilities and a new electric fire pump would be installed in the new pump house. The water distribution piping associated with the retained facilities would be used with some modifications and repairs.

In this option, selected pumps and components in the 382 Complex would be replaced or repaired to establish a condition with a reasonable expectation of service life in support of a 20-year operating mission. The following activities would be performed to establish this improved operating condition:

382 Building:

Replace entire structure and pumps with a skid-mounted enclosed electric pump system consisting of three electric pumps with integrated control systems. The pump skid would include two variable-speed electric domestic booster pumps and a constant speed electric fire pump, with the enclosure installed near the existing 382 building. A new suction header would be routed from the 382-C and 382-D tanks parallel to the existing header, allowing startup and testing of the new pump skid prior to termination of the 382 Building. Discharge headers from the pump skid would be tied into the existing north, west and south water distribution loops.

382-B Building

Repair leaking recirculation pump (routine maintenance, planned by WCH)

382-C Tank

Clean and inspect tank and apply coating if necessary  
Reroute tank discharge drain to stormwater discharge system

382-D Tank

Reroute tank discharge drain to stormwater discharge system

382-BA Building

None

Outside 382 Complex

Reroute 382 Complex process sewer manhole to sanitary sewer (part of wastewater team activities if 382 Complex is retained).

#### Water distribution piping

The existing water distribution piping that would remain to feed the remaining 300 Area buildings would include about 7,000 feet of 1950's era 8" pipe of which approximately 5800 feet would be scraped and mortar-lined and approximately 1240 feet would be cleaned by pigging. Sectional valves would be replaced as needed.

### **5.0 Option 4. Install New Pumphouse With New Storage Tank**

This option is similar to Option 1 except a new 1M gallon water storage tank would be used in place of installing a second water main from the City of Richland. All other aspects would be the same as Option 1.

## **6.0 Advantages and Disadvantages of Options**

### Option 1: Advantages:

- New pumping equipment sized to the demands of the reduced 300 Area.
- Lowest annual and life cycle cost for operations.
- Eliminates requirement to continue operations of the 382-BA boiler annex.
- Avoids the need to route sanitary sewer and storm sewer lines from 382 Complex.
- Retains the least amount of old 8" pipe and valves that may need to be replaced.
- No discharges to the process sewer during pump operations/testing.
- No water storage tanks or chemical treatment system to operate or maintain.
- Allows remediation of the small waste site (300-11) located under the 382 Complex.
- Reduce risk of water main failures that could spread contamination from existing underground waste sites to clean areas or the Columbia River.
- The new facility will have a simpler system design with fewer valves and equipment to maintain.
- The new pumping system can be automated easily for remote monitoring and operation.

### Option 1: Disadvantages:

- Higher initial cost for installation than Option 2.
- Requires substantial startup and operations testing.

### Option 2: Advantages:

- Least initial cost option.
- Requires least startup and operations testing
- Some portions of work can be integrated with routine operations and maintenance of utility systems in the 300 area (part of routine scope).

### Option 2: Disadvantages:

- Highest annual and life cycle cost for operations.
- Retains the largest amount of old 8" pipe and valves that may need to be replaced.
- Stormwater and sanitary wastewater system modifications are required to handle tank overflows and routine boiler blowdown effluents.
- Water storage tanks and chemical treatment system to operate or maintain.

- The small waste site (300-11) located under the 382 Complex cannot be remediated.
- Old equipment, valves and piping that would require routine maintenance or replacement.
- The existing pumping equipment is not connected for remote monitoring or operation.
- Requires continued operation of the 382-BA boiler annex.
- Electrical system upgrades needed to replace the 2400 VAC system.

Option 3: Advantages:

- New pumping equipment sized to the demands of the reduced 300 Area.
- Reduced operating cost (higher than Option 1; lower than Option 2)
- Improved system reliability.
- No discharges to the process sewer during pump operations/testing.
- The new facility will have a simpler system design with fewer valves and equipment to maintain.
- The new pumping system can be automated easily for remote monitoring and operation.

Option 3: Disadvantages:

- Higher cost than Option 2.
- No convenient location to install a new building to house the pumps while the current system is in operation.
- Retains approximately the same quantity of the old 8" pipe and valves as Option 2 that may need to be replaced.
- The small waste site (300-11) located under the 382 Complex cannot be remediated.
- Requires stormwater and sanitary wastewater system modifications to accommodate tank overflows and routine steam boiler blowdowns.
- Water storage tanks and chemical treatment system to operate or maintain.

Option 4: Advantages:

- New pumping equipment sized to the demands of the reduced 300 Area.
- Low annual and life cycle cost for operations.
- Eliminates requirement to continue operations of the 382-BA boiler annex.
- Avoids the need to route sanitary sewer and storm sewer lines from 382 Complex.
- Retains the least amount of old 8" pipe and valves that may need to be replaced.
- No discharges to the process sewer during pump operations/testing.
- Allows remediation of the small waste site (300-11) located under the 382 Complex.
- Reduce risk of water main failures that could spread contamination from existing underground waste sites to clean areas or the Columbia River.
- The new facility will have a simpler system design with fewer valves and equipment to maintain.
- The new pumping system can be automated easily for remote monitoring and operation.
- Eliminates need to construct new City of Richland water main

Option 4: Disadvantages:

- Highest initial cost for installation.
- Requires substantial startup and operations testing.
- Water storage tanks and chemical treatment system to operate or maintain.

## **7.0 Water Distribution System Discussion**

The tuberculation in the old 8" water mains has reduced the inside diameter by about 2 inches based on photos taken at several different locations. This has effectively reduced the flow capacity of the 8" mains to less than a 6" main. A new 8" water main will deliver 2.1 times more water than a new 6" main. The flow capability of suspect mains based on limited flow testing is significantly impaired and the project assumes substantial cleaning. For most domestic applications, pipe cleaning is typically followed by mortar lining to improve water quality and reduce opportunities for future tuberculation. The majority of the iron 8" pipes are planned for cleaning and mortar-lining with limited portions planned for cleaning by pigging, without mortar lining. It may be necessary to periodically clean the un-lined portions and the pig launching and retrieval stations will be left in place to facilitate future cleaning.

#### APPENDIX A. PUMPHOUSE DESIGN CRITERIA FOR OPTIONS 1 AND 4

The water subteam prepared design information relevant to the requirements for a pressure boosting station that would be constructed for Options #1 or 4.

The new booster pumping station for options 1 or 4 would have the following features and capabilities:

1. Located west of the 318 Building and south of Cypress Street.
2. Heated, ventilated and insulated modular or pre-engineered building.
3. Designed and installed in accordance with NFPA 20 and 24 including seismic design features.
4. Redundant electric domestic water supply pumps each capable of supplying the maximum daily water supply requirements. Capacity shall not be less than 500 GPM at a delivery pressure of 120 psi. Motors for pumps shall be variable speed with variable speed controllers.
5. UL list/FM Approved redundant fire pumps capable of delivering the required water system demand including fire flow for a period of not less than 4 hours. One pump shall be powered by an electric motor and one pump shall be powered by a diesel engine. The pumps shall be separated by a minimum 2-hour fire rated wall if in the same building or located within 50 feet of each other.
6. Fire pump controllers shall be UL listed/FM approved for the equipment being controlled. The controllers shall have normally open contacts for remote monitoring of the alarms as required by NFPA 20.
7. Fire pump test header with FM approved flow test meter. The test header piping shall be installed and valved to allow each fire pump to be tested independently without shutting down the water supply from the other pumps to the 300 Area water system. The discharge piping of the test header shall be routed to the Cypress Street parking lot storm drainage swale located NW of the pumping station.
8. Pressure gages on the suction and discharge sides of each fire pump.
9. Isolation gate valves on the suction and discharge sides of each pump. Fire pump supply and discharge valves shall be provided with valve position supervisory switches. Pump test discharge valves shall be supervised in the closed position.
10. Check valves on the discharge side of each pump.
11. Diesel fuel tank shall be a double wall UL listed tank.
12. Fire sprinkler protection for the pump building(s).
13. A Notifier NFS2-640 fire alarm control panel (FACP) to monitor the fire sprinkler system, manual fire alarm pull boxes, valve supervisory switches, building temperature supervisory switches, and fire pump supervisory functions. The FACP shall transmit alarm messages to the Hanford Fire Department or the PNNL Operations Center via Notifier NFN gateway.
14. Pumping station status and alarm capabilities should be provided to a continuously staffed location.
15. Bypass piping and valves shall be provided to allow City of Richland water to feed directly into the 300 Area water system without going through the pumps. Bypass line shall be not less than 12-inch in diameter.
16. Underground valves supplying water to the pump building shall be post indicator type valves with valve position supervisory switches that are monitored by the FACP.

ATTACHMENT 3

COST ESTIMATE SUMMARY AND COST ESTIMATE FOR OPTION 1

(consisting of 4 pages)





## Cost Estimate Summary



<b>TITLE:</b>	<b>300 AREA UTILITY RELOCATION PROJECT WATER SYSTEMS MODIFICATIONS</b>	<b>Estimate Number:</b>	1004 Water
<b>AREA:</b>	300 Area	<b>Revision:</b>	Rev 4
<b>Estimate Requestor:</b>	D. McBride	<b>WBS Number:</b>	1.04
<b>Prepared By:</b>	bwwilcox	<b>Date Prepared:</b>	04/12/07
		<b>Date Revised:</b>	05/21/07
		<b>Estimate Type:</b>	ROM

### 1.0 Purpose / Scope Description:

Provide estimates for 4 options to modify the 300 Area water systems.

### 2.0 Scope of Estimate

The existing water supply to the 300 Area consists of a 16" main from the City of Richland feeding a pressure boosting and water distribution facility identified as the 382 Complex that distributes water via looped underground piping systems throughout the 300 Area for potable (domestic) requirements as well as fire protection and process water uses. Modifications to the 300 Area water system are needed to accommodate the demolition of old 300 Area buildings, remediation of waste sites and to assure a reasonable expectation of service life to facilities that are planned for extended operation (> 20 years).

Because of the fire protection role, the system is required by DOE orders to have built in redundancy so that a single failure of the water supply, pumps, or mains will not prevent water from being supplied to the system for fire suppression. A looped system is required wherever practicable.

This estimate examines 4 options to modify or upgrade the 300 Area water system.

**OPTION 1:** Install a new pumping station on Cypress St. near Bldg 318 and abandon the 382 Complex of pump houses and storage tanks including:

- \* Abandon 382 complex including tanks & fire pumping station (382-B) and replace with new skid mounted pumping facility.
- \* Install new skid mounted pumping station consisting of 4 new pumps including one diesel firewater pump. Equipment will be provided and installed by Original Equipment Manufacturer (OEM).
- \* Tie new skid into existing 16" water line from the City of Richland.
- \* Install a new second 16" water line from the city and tie into the new pump station providing redundancy.
- \* Install two new 12" water lines at Cypress St and from Wisconsin Ave to the existing Fire Station.
- \* Install new 12" test drain line along Cypress St to grassy swale.
- \* Clean & re-line ~3,500 LF of existing 8" underground water lines. Install new valves as required.
- \* Pig clean only ~1,240 LF of existing 8" underground water lines from Wisconsin at Hemlock to 6" line near Fire Hydrant 80. Requires installation of launch and retrieval spools in existing lines.

**OPTION 2:** Keep existing 382 water tanks, Bldg 382 pump station and existing water system mains. Upgrade components to meet 20 year service life including:

- \* Repair Bldg 382, repair/replace 382 service pumps, service piping & valves and controls systems as required. Keep existing diesel fire pumping station (382-B).
- \* Repair Bldg 382-B recirculation pumps.
- \* Drain & refurbish Tank 382-C
- \* Re-route 382 process sewer manhole to grassy swale at Wisconsin St. and Cypress St.
- \* Install new 12" water line from Wisconsin Ave to the existing Fire Station.
- \* Clean & re-line ~5,800 LF of existing 8" underground water lines. Install new valves as required.
- \* Pig clean only ~1,240 LF of existing 8" underground water lines from Wisconsin at Hemlock to 6" line near Fire Hydrant 80. Requires installation of launch and retrieval spools in existing lines.

**OPTION 3:** Keep the existing 382 water tanks and diesel fire pumping station. Install a new sanitary water pumping facility to replace the existing 382 Building including:

- \* Abandon Bldg 382 and replace with new skid mounted pumping facility. Keep existing diesel fire pumping station (382-B).
- \* Repair Bldg 382-B recirculation pumps.
- \* Drain & refurbish Tank 382-C
- \* Re-route 382 process sewer manhole to grassy swale at Wisconsin St. and Cypress St.
- \* Install new 12" water line from Wisconsin Ave to the existing Fire Station.
- \* Clean & re-line ~5,800 LF of existing 8" underground water lines. Install new valves as required.
- \* Pig clean only ~1,240 LF of existing 8" underground water lines from Wisconsin at Hemlock to 6" line near Fire Hydrant 80. Requires installation of launch and retrieval spools in existing lines.

**OPTION 4:** Install a new pumping station on Cypress St., abandon the 382 Complex and construct new water storage tank including:

- \* Abandon 382 complex including tanks & fire pumping station (382-C) and replace with new skid mounted pumping facility.
- \* Install new skid mounted pumping station consisting of 4 new pumps including one diesel firewater pump. Equipment will be provided and installed by Original Equipment Manufacturer (OEM).
- \* Tie new skid into existing 16" water line from the City of Richland.
- \* Construct new 1,000,000 gallon field erected tank adjacent to new pump station for firewater redundancy. Cone headed tank is insulated and includes dry well heating for freeze protection.
- \* Install two new 12" water lines at Cypress St and from Wisconsin Ave to the existing Fire Station.
- \* Install new 4" test drain line along Cypress St to grassy swale.
- \* Clean & re-line ~3,500 LF of existing 8" underground water lines. Install new valves as required.
- \* Pig clean only ~1,240 LF of existing 8" underground water lines from Wisconsin at Hemlock to 6" line near Fire Hydrant 80. Requires installation of launch and retrieval spools in existing lines.

### 3.0 Basis and Assumptions:

1. Options are estimated to be performed by a Subcontractor. Costs for SubK OH&P are included in the estimate.
2. Scope does not include work with radioactive or hazardous materials. Assume Personal Protection Equipment (PPE) beyond hard hat, steel toes & protective eye wear will not be required by OEM or Subcontractor personnel.
3. Engineering and design basis is conceptual.
4. Labor pricing based on FY07 Hanford Site Stabilization Agreement (HSSA) rates.
5. Equipment priced using 80% of current Blue Book rates.
6. Bulk material pricing and labor unit rates from RS Means Estimating Guide are used where applicable. Local and national vendor pricing is used for major equipment and sub-tier Subcontractors work,



## Cost Estimate Summary



<b>TITLE:</b>	300 AREA UTILITY RELOCATION PROJECT WATER SYSTEMS MODIFICATIONS	<b>Estimate Number:</b>	1004 Water
<b>AREA:</b>	300 Area	<b>Revision:</b>	Rev 4
<b>Estimate Requestor:</b>	D. McBride	<b>Date Prepared:</b>	04/12/07
<b>Prepared By:</b>	bwilcox	<b>Date Revised:</b>	05/21/07
		<b>WBS Number:</b>	1.04
		<b>Estimate Type:</b>	ROM

7. Pricing for Option 4 new tank is based on actual costs for 600K gallon tank erected by vendor at the Hanford Waste Treatment Plant (WTP) project FY05 scaled to 1M gallons. Material pricing (steel) has been escalated to reflect current market conditions.
8. See individual estimate sheets for additional scope and assumptions .

#### 4.0 Exclusions:

1. Costs for Contractor overhead, fee, contingency or risk ARE NOT included for this initial analysis. Costs for WCH or other Hanford Contractors for design, support or oversight ARE NOT included in this estimate. Contingency percentages shown below are for construction General Subcontractor only and are based on the conceptual nature of the design.
2. Long term operating (lifecycle) costs ARE NOT included in the estimates.
3. Costs are in current dollars. Costs for escalation (other than steel tank materials) ARE NOT included in the estimates.

#### 5.0 Estimated Cost

<u>Total estimated cost (\$1,000s)</u>	<i>Estimated Cost</i>	<i>Contingency %</i>	<i>Contingency \$\$\$</i>	<i>TEC</i>
<b>Option 1: New Pump Station - New 16" Water Line</b>	<b>\$2,921</b>	<b>30%</b>	<b>\$876</b>	<b>\$3,797</b>
<b>Option 2: Keep 382 Complex - Upgrade All Major Components</b>	<b>\$2,324</b>	<b>40%</b>	<b>\$930</b>	<b>\$3,254</b>
<b>Option 3: Keep 382 Complex - Replace 382 Pump Facility</b>	<b>\$2,536</b>	<b>30%</b>	<b>\$761</b>	<b>\$3,297</b>
<b>Option 4: New Pump Station - New 1M Gal Water Tank</b>	<b>\$3,087</b>	<b>30%</b>	<b>\$926</b>	<b>\$4,013</b>

#### 6.0 Estimate Review

	Name (print)	Signature	Date
Estimator	Bruce Wilcox	_____	_____
Estimating Manager	Doug Ahmer	_____	_____
Task Manager	Don McBride	_____	_____
Project Controls Lead	_____	_____	_____

**Washington Group International, Inc.**  
**300 AREA WATER 4 - Est 1004 - 300 Area Utility Relocation Project**  
**02 - WATER**

5/24/2007

Code	Description	Quantity	Manhours	Labor	Perm	Materials	Equipment	Supplies	Subcontracts	Other	Total
1.0-UTILITY OPTIONS: W1 - WATER - OPT 1											
WWIMOB01	- * SubK Work Planning & Preparation	160.000	HR	960		59,443				10,285	69,727
WWIMOB02	- * On-Site Required Training & Badging	0.500	LS	186		9,460			4,942	2,492	16,894
WWIMOB03	- * Baseline Physical For Hanford Workers	1.000	LS	40		1,828				316	2,144
WWIMOB04	- * SubK Mob Equip, Tools, Materials	1.000	LS	100		3,651	1,290	1,618		1,135	7,693
WWIMOB05	- * Portable Toilets	12.000	MO						5,256	909	6,165
WWIMOB06	- * Two Way Radios	12.000	EA					5,415		937	6,352
WWIMOB07	- * SubK Field Office Facilities Setup	1.000	LS	120		5,232			11,754	9,150	4,522
WWIMOPS1	- * Monthly Operations & Overhead	12.000	MO	8,964		540,355		650	17,038	96,554	654,597
WWINEW01	- * New 16" Main - Asphalt Cutting & Removal	266.000	SY	20		726	410	496	720	407	2,759
WWINEW02	- * New 16" Main - Excavation & Sand Bedding	6,700.000	BCY	258		9,273	13,538	6,403	5,797	10,000	7,788
WWINEW03	- * New 16" Main - Pipe & Valve Installation	6,700.000	LF	2,785		114,694	271,145	10,559	21,238	72,260	489,897
WWINEW04	- * New 16" Main - Backfill & Compaction	7,370.000	LCY	524		18,627	16,307	7,491	6,981	8,548	57,954
WWINEW05	- * New 16" Main - Pipeline Bridge at Heavy H	1.000	EA	200		7,203	3,812	85	589		2,022
WWINEW06	- * New 16" Main - Road Repair	108.000	SY						1,809	313	2,122
WWINEW07	- * New 16" Main - Flush & Test New Line	1.000	LS	160		7,234		136	223	1,314	8,907
WWINEW11	- * 12" Cypress Main - Asphalt Cutting & Remo	1.000	LS	20		726		410	496	600	386
WWINEW12	- * 12" Cypress Main - Excavation & Sand Bed	650.000	BCY	125		4,473	1,354	3,278	2,937	10,000	3,814
WWINEW13	- * 12" Cypress Main - Pipe & Valve Installation	650.000	LF	388		15,887	24,229	3,837	4,722		8,422
WWINEW14	- * 12" Cypress Main - Backfill & Compaction	715.000	LCY	113		3,978	1,745	717	672		1,231
WWINEW16	- * 12" Cypress Main - Road Repair	108.000	SY							838	145
WWINEW17	- * 12" Cypress Main - Flush & Test New Line	1.000	LS	80		3,617		68	112		657
WWINEW21	- * 12" Fire Station Main - Asphalt Cutting & R	1.000	LS	20		726		410	496	600	386
WWINEW22	- * 12" Fire Station Main - Excavation & Sand B	650.000	BCY	125		4,473	1,354	3,278	2,937	10,000	3,814
WWINEW23	- * 12" Fire Station Main - Pipe & Valve Inst	650.000	LF	388		15,887	21,793	3,837	4,722		8,000
WWINEW24	- * 12" Fire Station Main - Backfill & Compac	715.000	LCY	113		3,978	1,745	717	672		1,231
WWINEW26	- * 12" Fire Station Main - Road Repair	0.010	LS							838	145
WWINEW27	- * 12" Fire Station Main - Flush & Test New L	1.000	LS	80		3,617		68	112		657
WWINEW31	- * 12" Test Drain - Asphalt Cutting & Removal	1.000	LS	10		363		80	129	600	203
WWINEW32	- * 12" Test Drain - Excavation & Backfill	650.000	BCY	30		1,028		165	182		238
WWINEW33	- * 12" Test Drain - Pipe & Valve Installation	390.000	LF	218		9,194	8,769	197	839		3,287
WWINEW36	- * 12" Test Drain - Road Repair	0.010	LS							168	29
WW1PIG01	- * Install Pig Launcher	1.000	EA	60		3,030	3,791	395	413	2,120	1,687
WW1PIG02	- * Construct End of Line Pig Retrieval	1.000	EA	48		2,591	1,083	190	165	2,000	1,043
WW1PIG03	- * Clean (Pig Only) 8" Water Line	1,240.000	LF	30		1,233	1,083		67		412
WW1PIG04	- * Backfill, Compaction & Road Repair	1.000	LS	30		1,047		707	632	838	558
WW1PMP01	- * New Pump Station - Excavation & Backfill	100.000	BCY	10		366		212	199	2,000	481
WW1PMP02	- * New Pump Station - Modular Bldg Foundation	30.000	CY	200		7,310	3,899	714	1,208		2,272
WW1PMP03	- * New Pump Station - Pump Station Installation	1.000	LS	240		9,740	434,283	1,779	2,057	10,000	79,220
WW1PMP04	- * New Pump Station - New Electrical Service	1.000	LS	220		9,528	30,866	320	834		7,189
WW1PMP05	- * New Pump Station - Chlorination System	1.000	LS	120		6,291	6,498		341		2,272
WW1PMP06	- * New Pump Station - Main Line Connections	1.000	LS	240		11,149	20,880	639	1,241		5,867
WW1PMP07	- * New Pump Station - Test Operating Systems	1.000	LS	480		24,075			1,304		4,391
WW1WLN01	- * Water Main Clean & Line - Excavation Scan	9.000	EA							18,000	3,114
WW1WLN02	- * Water Main Clean & Line - Asphalt Cutting &	9.000	EA	180		6,531		3,691	4,466	5,400	3,476
WW1WLN03	- * Water Main Clean & Line - Site Excavation	9.000	EA	1,584		57,652	2,112	22,366	21,862	17,993	121,985

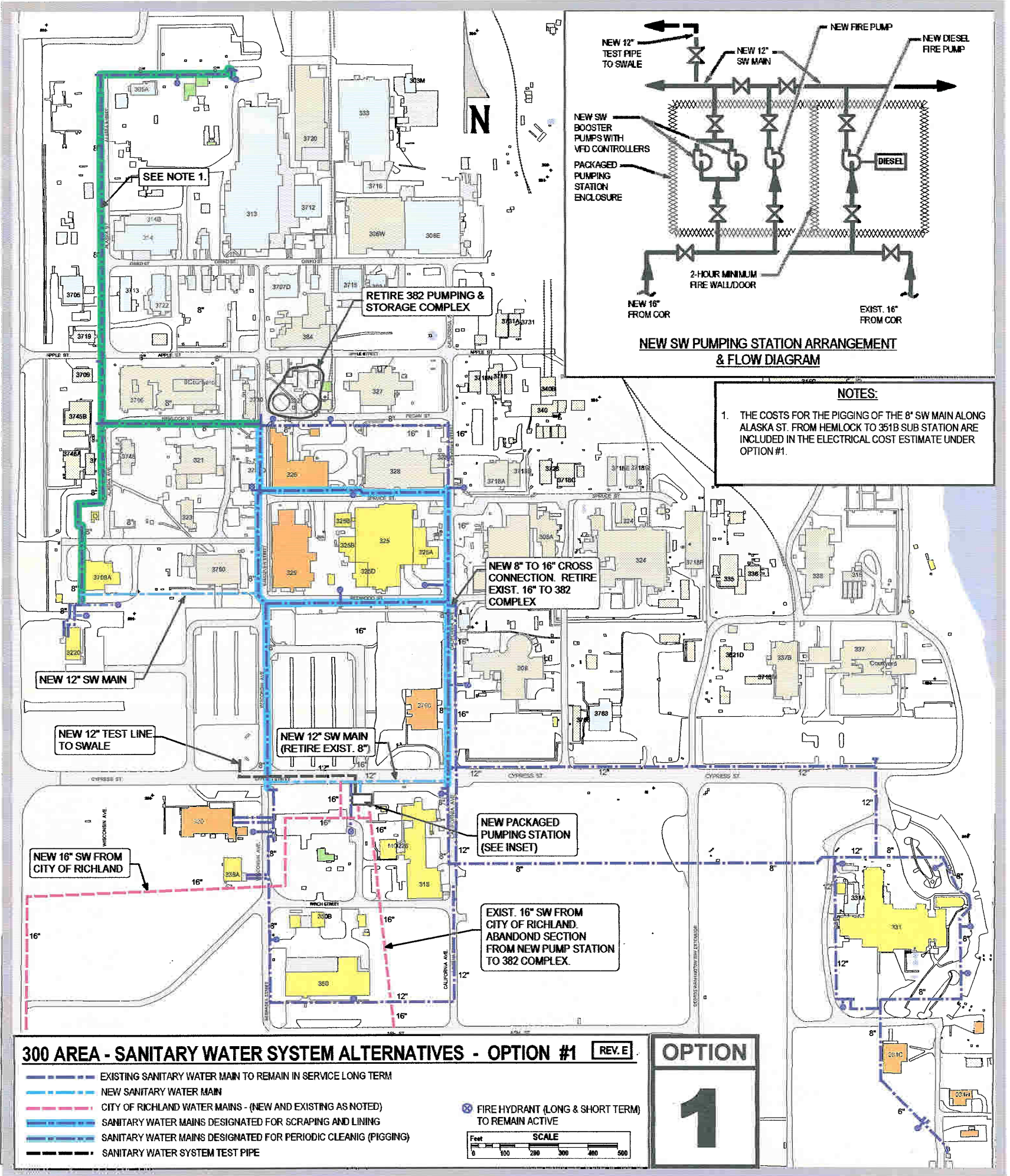
Code	Description	Quantity	Manhours	Labor Perm	Materials	Equipment	Supplies	Subcontracts	Other	Total
1.0-UTILITY OPTIONS: W1 - WATER - OPT 1										
	WW1WLN04 - * Water Main Clean & Line - Pipe Cleaning	3,480.000 LF	259	9,024		2,060	2,880	95,489	18,938	128,391
	WW1WLN05 - * Water Main Clean & Line - Spool & Valve R	9.000 EA	1,080	47,119	45,161	1,817	5,705		17,268	117,069
	WW1WLN06 - * Water Main Clean & Line - Backfill & Com	9.000 EA	810	28,460	4,057	9,812	8,995		8,880	60,203
	WW1WLN07 - * Water Main Clean & Line - Road Repair	9.000 EA						7,538	1,304	8,842
	WW1WND01 - * Flush & Test Entire System	1.000 LS	640	28,934		273	446		5,131	34,784
	WW1WND02 - * Site Cleanup	60.000 HR	360	12,529		1,172	2,278		2,765	18,743
	WW1WND03 - * SubK DeMob Equip, Tools, Materials	20.000 HR	100	3,651		1,290	1,618		1,135	7,693
	WW1WND04 - * Close Out	1.000 LS	270	17,017					2,944	19,961
Subtotal, W1 - WATER - OPT 1			22,985	1,132,948	919,502	90,873	130,495	215,942	430,784	2,920,544

ATTACHMENT 4

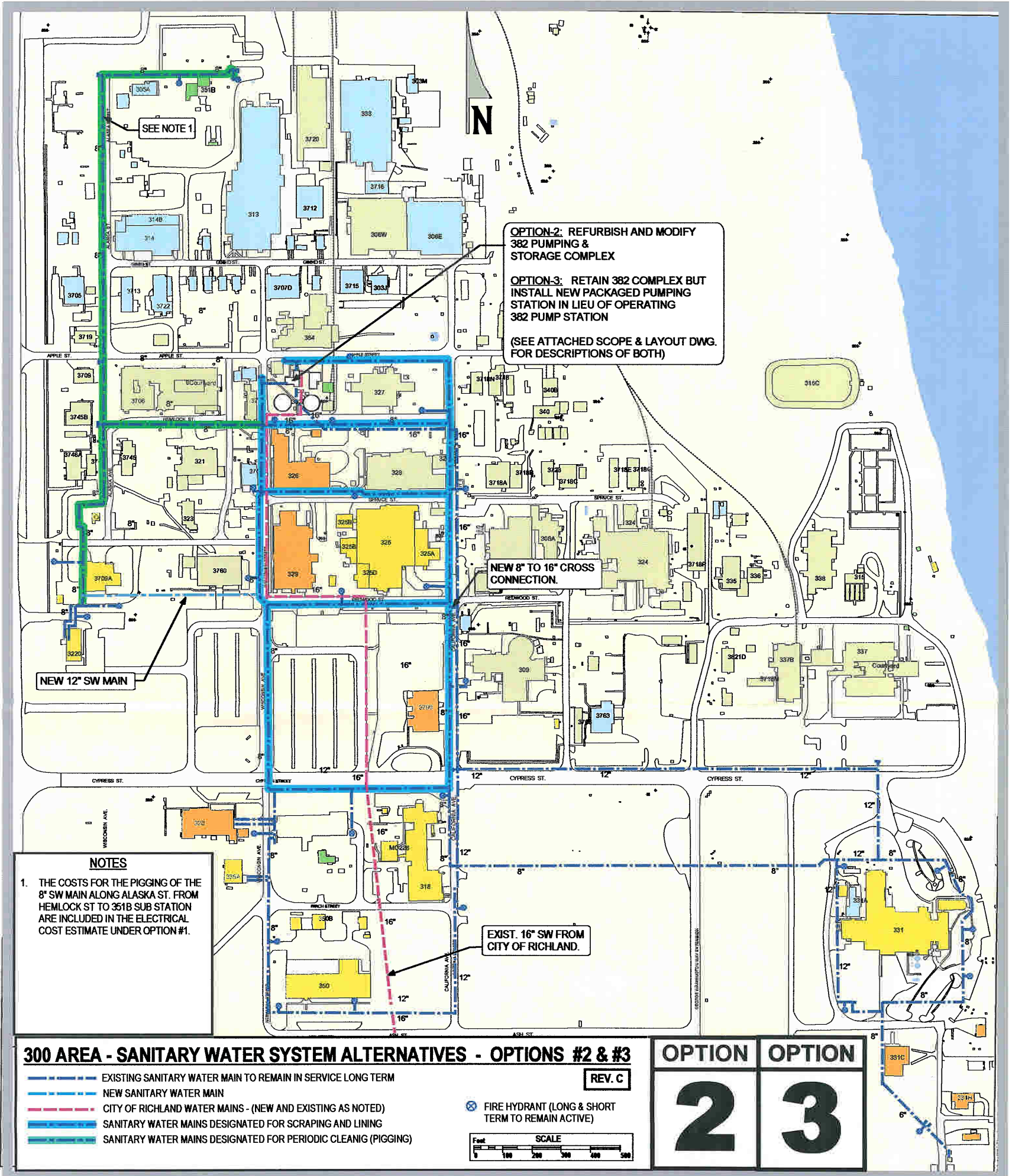
WATER SYSTEM ALTERNATIVE - SCHEMATICS

(consisting of 4 pages)

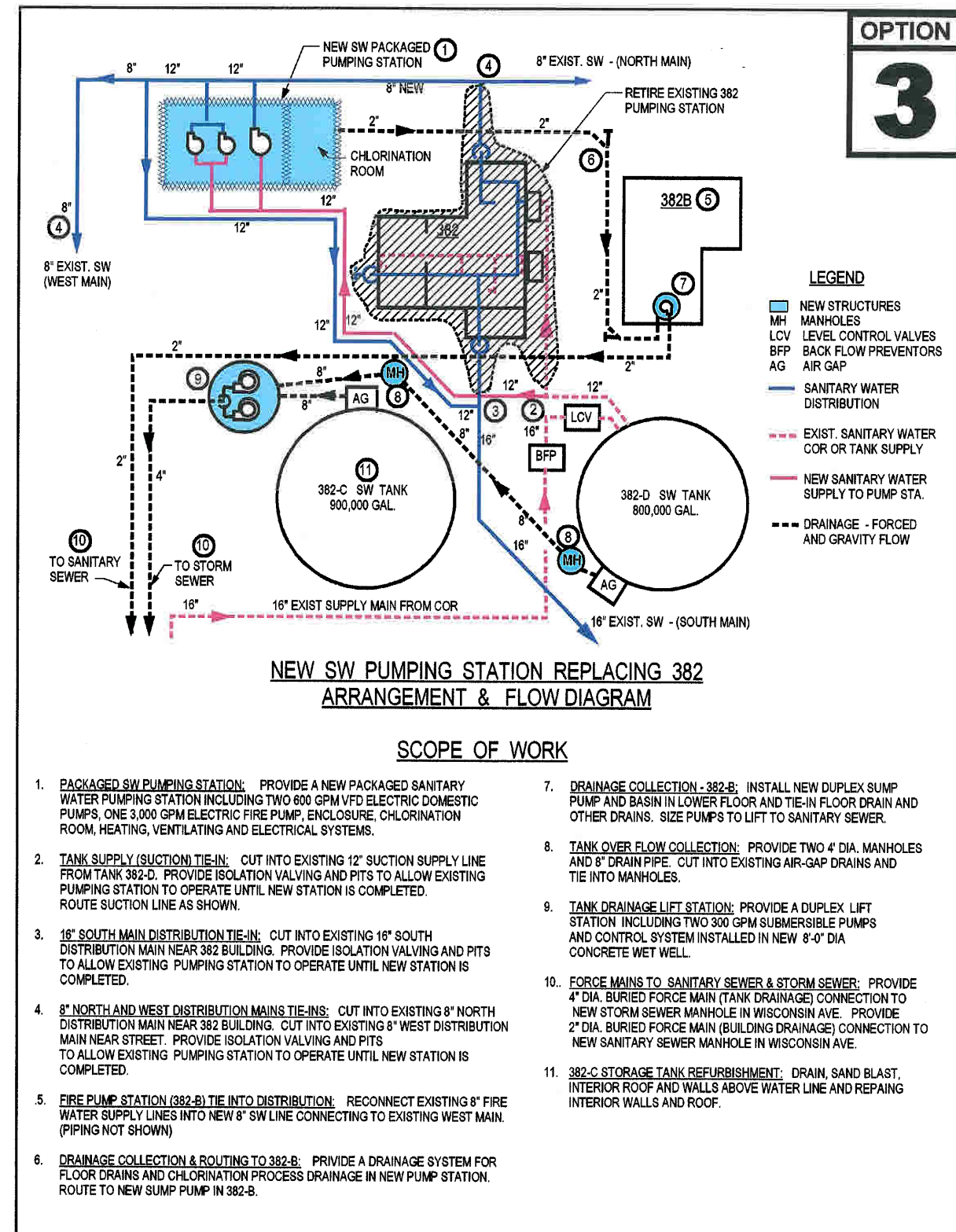
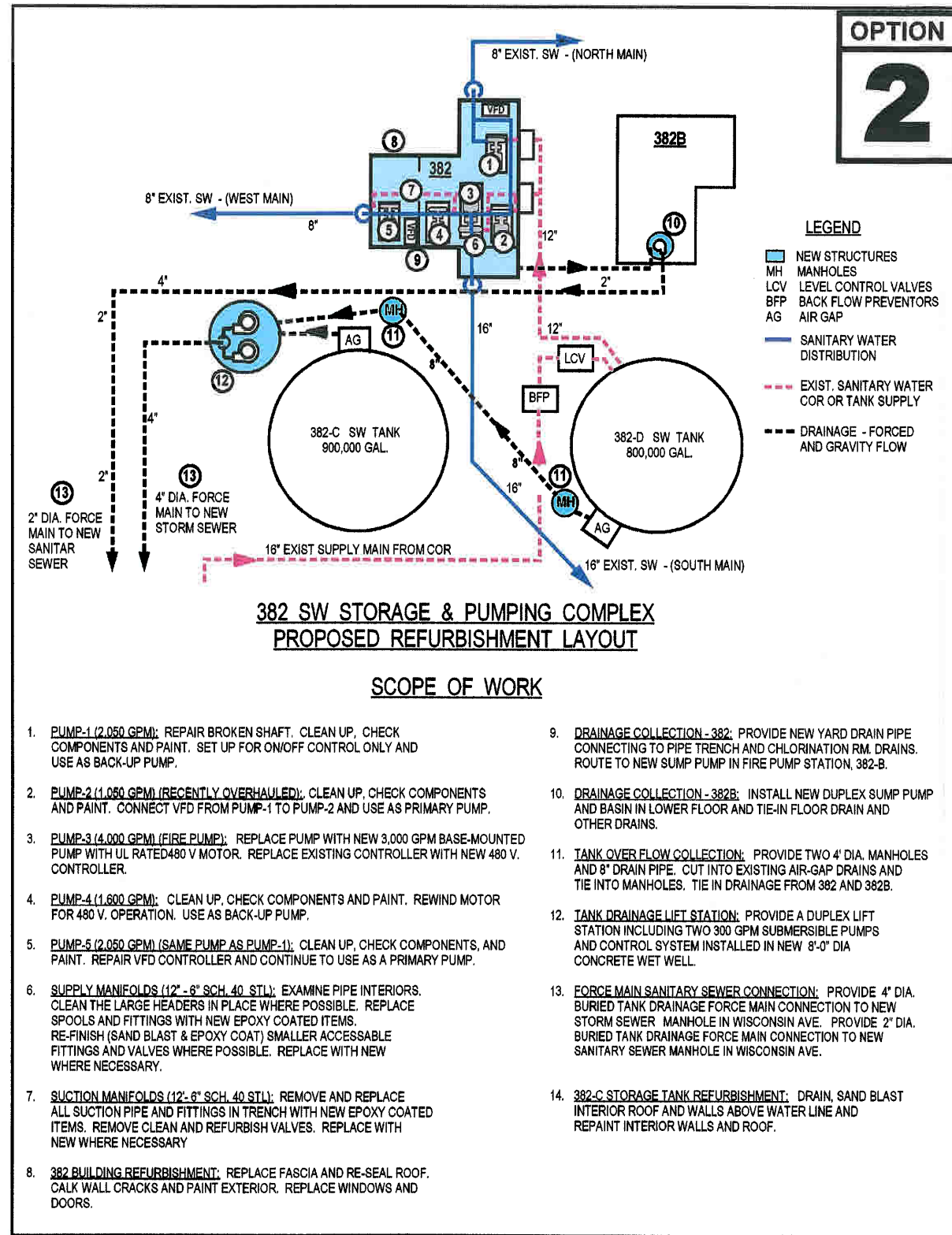


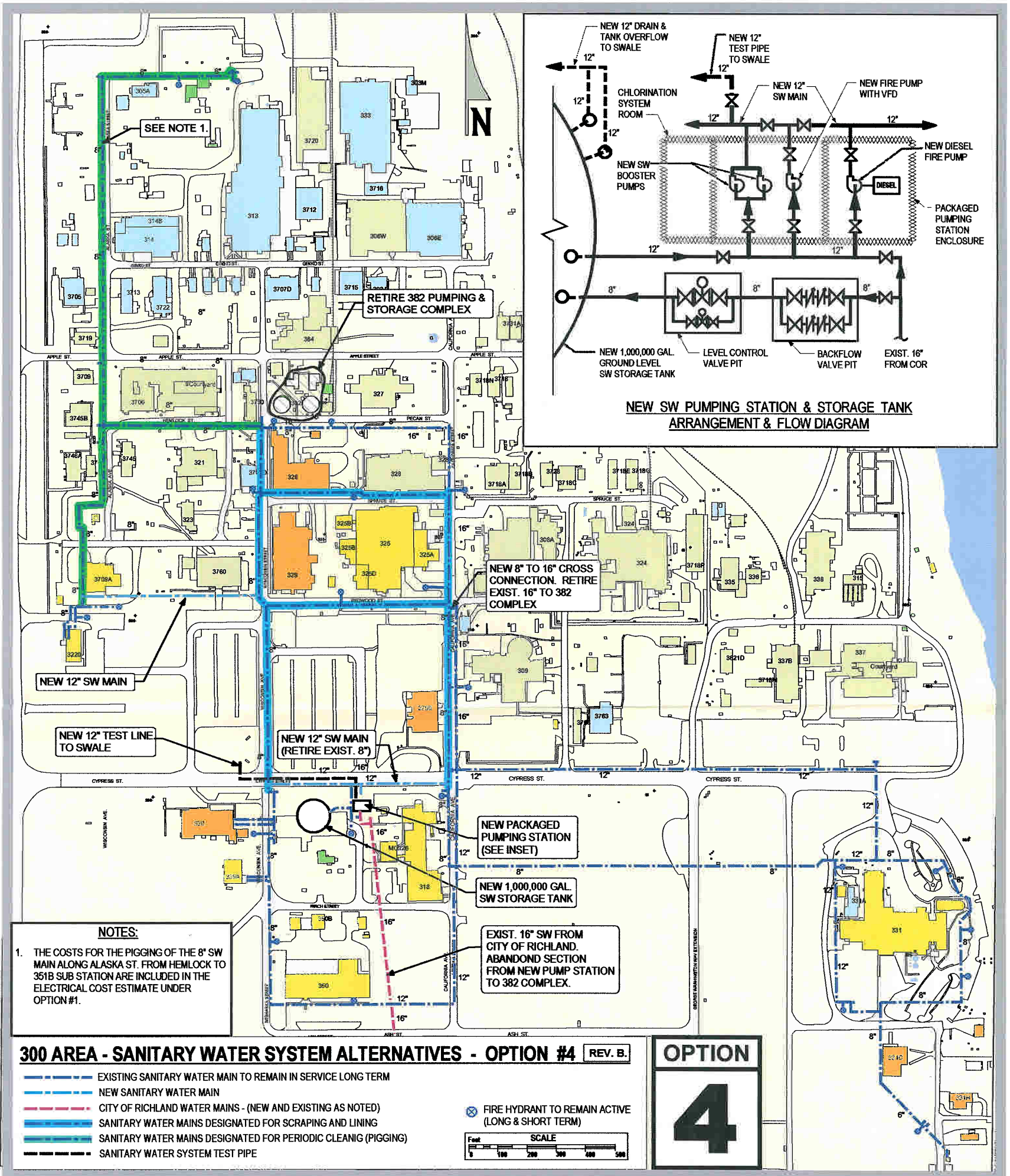












**APPENDIX E**

**300 AREA SANITARY AND FIRE PROTECTION WATER  
CONCEPTUAL DESIGN**

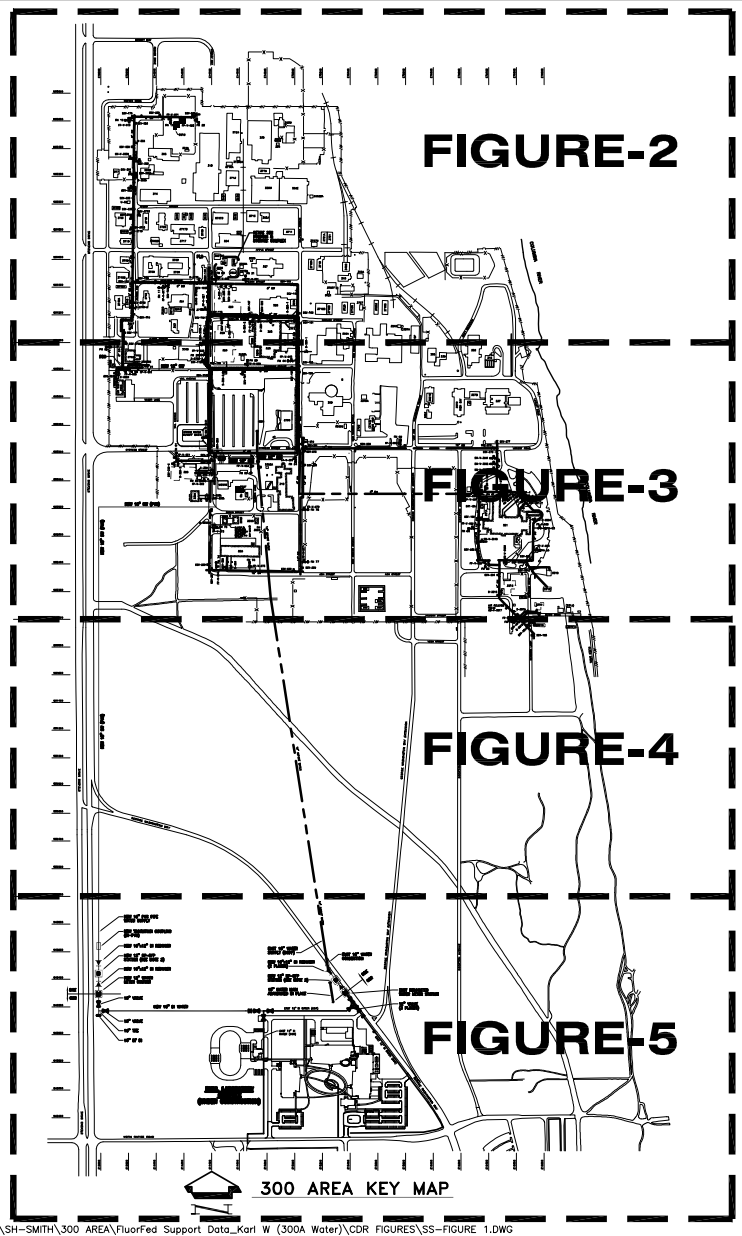
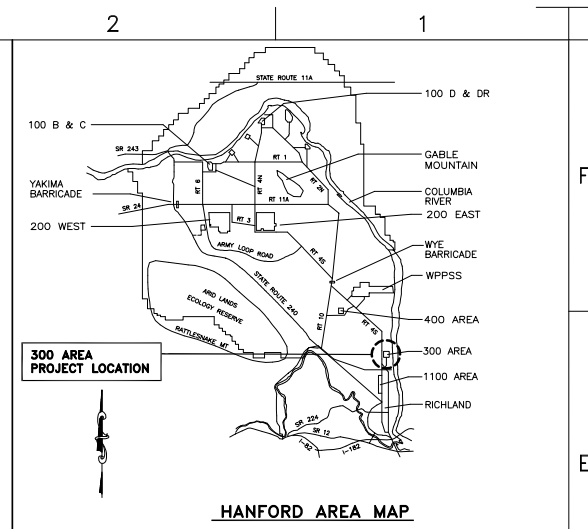




**PROJECT TITLE: 300 AREA UTILITY RELOCATION PROJECT - SANITARY & FIRE PROTECTION WATER - CONCEPTUAL DESIGN**

**FOR: WASHINGTON CLOSURE HANFORD**

**BY: FLUOR GOVERNMENT GROUP**



- LEGEND** (DOES NOT APPLY TO KEY MAP)
- FIRE HYDRANT
  - KEY OPERATED GATE VALVE
  - POST INDICATOR GATE VALVE
  - GATE VALVE
  - BACK FLOW PREVENTER
  - FLOW METER
  - PLS OR PRS
  - EXISTING SANITARY WATER MAIN
  - NEW SANITARY WATER MAIN
  - DRAINAGE OR TEST PIPE (DI)
  - EXISTING CITY SANITARY WATER MAIN
  - WATER MAINS DESIGNATED FOR PERIODIC CLEANING
  - WATER MAINS DESIGNATED FOR SCRAPPING & LINING
  - LONG TERM FACILITY (20 YEARS)
  - LONG TERM UTILITIES STRUCTURE (351B, 352F)
  - SHORT TERM FACILITY (2011 OR LONGER)

- ABBREVIATIONS** (DOES NOT APPLY TO KEY MAP)
- BCV BUILDING CONTROL VALVE
  - CCPP CONCRETE CYLINDER PRESSURE PIPE
  - COR CITY OF RICHLAND
  - FH FIRE HYDRANT
  - FP FIRE PROTECTION
  - PIV POST INDICATOR VALVE
  - PLS PIG LAUNCH STATION
  - PRS PIG RETRIEVAL STATION
  - PVC POLY VINYL CHLORIDE PIPE (C905-97)
  - RP-BFP REDUCED PRESSURE BACK FLOW PREVENTER
  - S SPRINKLER CONTROL VALVE (FP SYSTEM)
  - SCV SECTIONALIZING CONTROL VALVE
  - SW SANITARY WATER

**DRAWING LIST**

DRAWING NO.	TITLE
FIGURE-1	DRAWING LIST, VICINITY MAP & GENERAL NOTES
FIGURE-2	SITE PLAN FIGURE 2
FIGURE-3	SITE PLAN FIGURE 3
FIGURE-4	SITE PLAN FIGURE 4
FIGURE-5	SITE PLAN FIGURE 5
FIGURE-6	PUMPING STATION SITE PLAN
FIGURE-7	PUMPING STATION PLAN
FIGURE-8	DETAILS

**GENERAL NOTES:**

1. INFORMATION ON THESE DRAWINGS IS CONSIDERED CONCEPTUAL IN NATURE AND NOT DEFINITIVE. INFORMATION MAY CHANGE AS REFINEMENTS AND SCOPE CHANGES ARE MADE DURING FINAL DESIGN. NOTES 2 THRU 18 APPLY TO NEW BOOSTER STATION ONLY.
2. LOCATED WEST OF THE 318 BUILDING AND SOUTH OF CYPRESS STREET AS SHOWN.
3. PROVIDE HEATED, VENTILATED AND INSULATED MODULAR OR PRE-ENGINEERED BUILDING.
4. DESIGN AND INSTALL PER NFPA 20 AND 24 INCLUDING SEISMIC DESIGN FEATURES.
5. PROVIDE REDUNDANT ELECTRIC DOMESTIC WATER SUPPLY PUMPS EACH CAPABLE OF SUPPLYING THE MAXIMUM DAILY WATER SUPPLY REQUIREMENTS. CAPACITY SHALL NOT BE LESS THAN 500 GPM AT DELIVERY PRESSURE OF 120 PSI. MOTORS FOR PUMPS SHALL BE VARIABLE SPEED WITH VARIABLE SPEED CONTROLLERS AS SHOWN.
6. PROVIDE UL LIST/FM APPROVED REDUNDANT FIRE PUMPS CAPABLE OF DELIVERING THE REQUIRED WATER SYSTEM DEMAND INCLUDING FIRE FLOW FOR A PERIOD OF NOT LESS THEN 4 HOURS. ONE PUMP SHALL BE POWERED BY AN ELECTRIC MOTOR AND ONE PUMP SHALL BE POWERED BY A DIESEL ENGINE. THE PUMPS SHALL BE SEPARATED BY A MINIMUM 2-HOUR FIRE RATED WALL. PUMP CAPACITIES SHOWN ARE BASED ON FIRE FLOW REQUIREMENTS AND DOMESTIC AND INDUSTRIAL FLOW REQUIREMENTS PER STRUCTURE AS INCLUDED IN THE CRITERIA. PUMP HEAD REQUIREMENTS ARE CONSERVATIVE ESTIMATES BASED ON CURRENT OPERATING DATA AND ESTIMATED PIPE FRICTION LOSSES AFTER CLEANING AND LINING AS SHOWN.
7. FIRE PUMP CONTROLLERS SHALL BE UL LISTED/FM APPROVED FOR THE EQUIPMENT BEING CONTROLLED. THE CONTROLLERS SHALL HAVE NORMALLY OPEN CONTACTS FOR REMOTE MONITORING OF THE ALARMS AS REQUIRED BY NFPA 20.
8. PROVIDE COMMON FIRE PUMP TEST HEADER WITH FM APPROVED FLOW TEST METER. THE TEST HEADER PIPING SHALL BE INSTALLED AND VALVED TO ALLOW EACH FIRE PUMP TO BE TESTED INDEPENDENTLY WITHOUT SHUTTING DOWN THE WATER SUPPLY FROM THE OTHER PUMPS TO THE 300 AREA WATER SYSTEM. THE DISCHARGE PIPING OF THE TEST HEADER SHALL BE ROUTED TO THE CYPRESS STREET PARKING LOT STORM DRAINAGE SWALE LOCATED NW OF THE PUMPING STATION AS SHOWN.
9. PROVIDE PRESSURE GAGES ON THE SUCTION AND DISCHARGE SIDES OF EACH FIRE PUMP.
10. PROVIDE ISOLATION GATE VALVES ON THE SUCTION AND DISCHARGE SIDES OF EACH PUMP. FIRE PUMP SUPPLY AND DISCHARGE VALVES SHALL BE PROVIDED WITH VALVE POSITION SUPERVISORY SWITCHES. PUMP TEST DISCHARGE VALVES SHALL BE SUPERVISED IN THE CLOSED POSITION.
11. PROVIDE CHECK VALVES ON THE DISCHARGE SIDE OF EACH PUMP.
12. PROVIDE A DOUBLE WALL UL LISTED DIESEL FUEL TANK SIZED PER NFPA REQUIREMENTS.
13. PROVIDE FIRE SPRINKLER PROTECTION FOR THE PUMP BUILDING.
14. PROVIDE A NOTIFIER NFS2-640 FIRE ALARM CONTROL PANEL (FACP) TO MONITOR THE FIRE SPRINKLER SYSTEM, MANUAL FIRE ALARM PULL BOXES, VALVE SUPERVISORY SWITCHES, BUILDING TEMPERATURE SUPERVISORY SWITCHES, AND FIRE PUMP SUPERVISORY FUNCTIONS. THE FACP SHALL TRANSMIT ALARM MESSAGES TO THE HANFORD FIRE DEPARTMENT OR THE PNNL OPERATIONS CENTER VIA NOTIFIER NFN GATEWAY.
15. PUMPING STATION STATUS AND ALARM CAPABILITIES SHALL BE PROVIDED AND LOCATED AT CONTINUOUSLY STAFFED LOCATION.
16. BYPASS PIPING AND VALVES SHALL BE PROVIDED TO ALLOW CITY OF RICHLAND WATER TO FEED DIRECTLY INTO THE 300 AREA WATER SYSTEM WITHOUT GOING THROUGH THE PUMPS. BYPASS LINE SHALL BE NOT LESS THAN 12-INCH IN DIAMETER.
17. UNDERGROUND VALVES SUPPLYING WATER TO THE PUMP BUILDING SHALL BE POST INDICATOR TYPE VALVES WITH VALVE POSITION SUPERVISORY SWITCHES THAT ARE MONITORED BY THE FACP.
18. PROVIDE SUITABLE ELECTRICAL POWER SERVICE, COMMUNICATIONS SERVICE AND SEWER CONNECTIONS FOR THE PUMPING STATION.

PROJECT: 300 AREA UTILITY RELOCATION PROJECT

NAME	DATE	COMPANY
S. SMITH		FLUOR
K. WALTERSKIRCHEN		FLUOR

U.S. DEPARTMENT OF ENERGY  
Richland Operations Office

**300 AREA  
SANITARY WATER SYSTEM  
DRAWING LIST & KEY MAP**

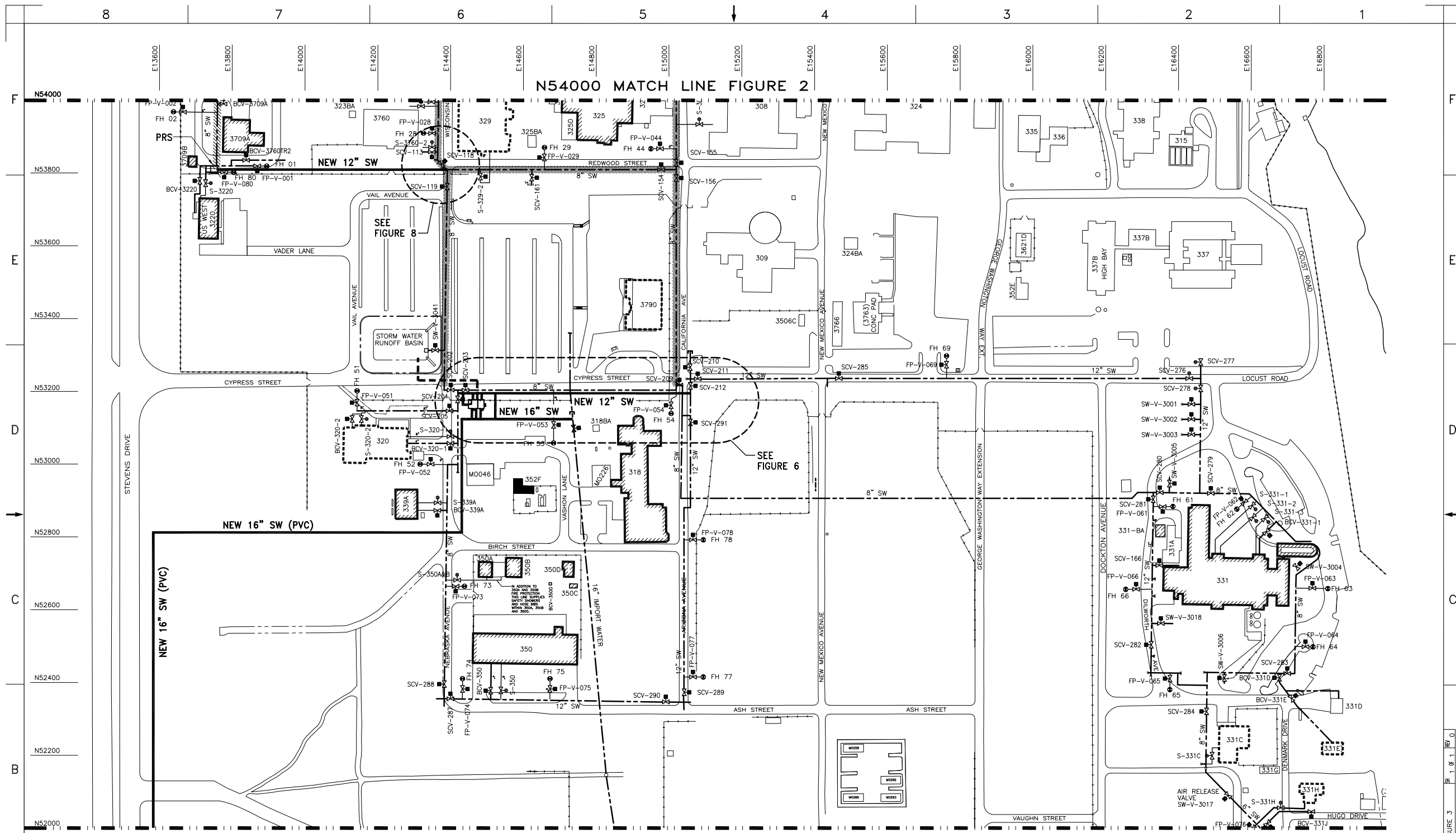
FIGURE 10

SCALE: SHOWN

DATE: 7/2/07 (31-01)

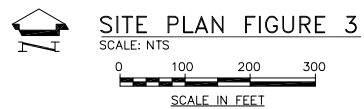
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<b>DRAWING TRACEABILITY LIST</b>								
<b>REFERENCES</b>								
<b>REVISIONS</b>								
3								
2								
1								





N52000 MATCH LINE FIGURE 4

NOTE:  
FOR GENERAL NOTES AND LEGEND SEE FIGURE 1.



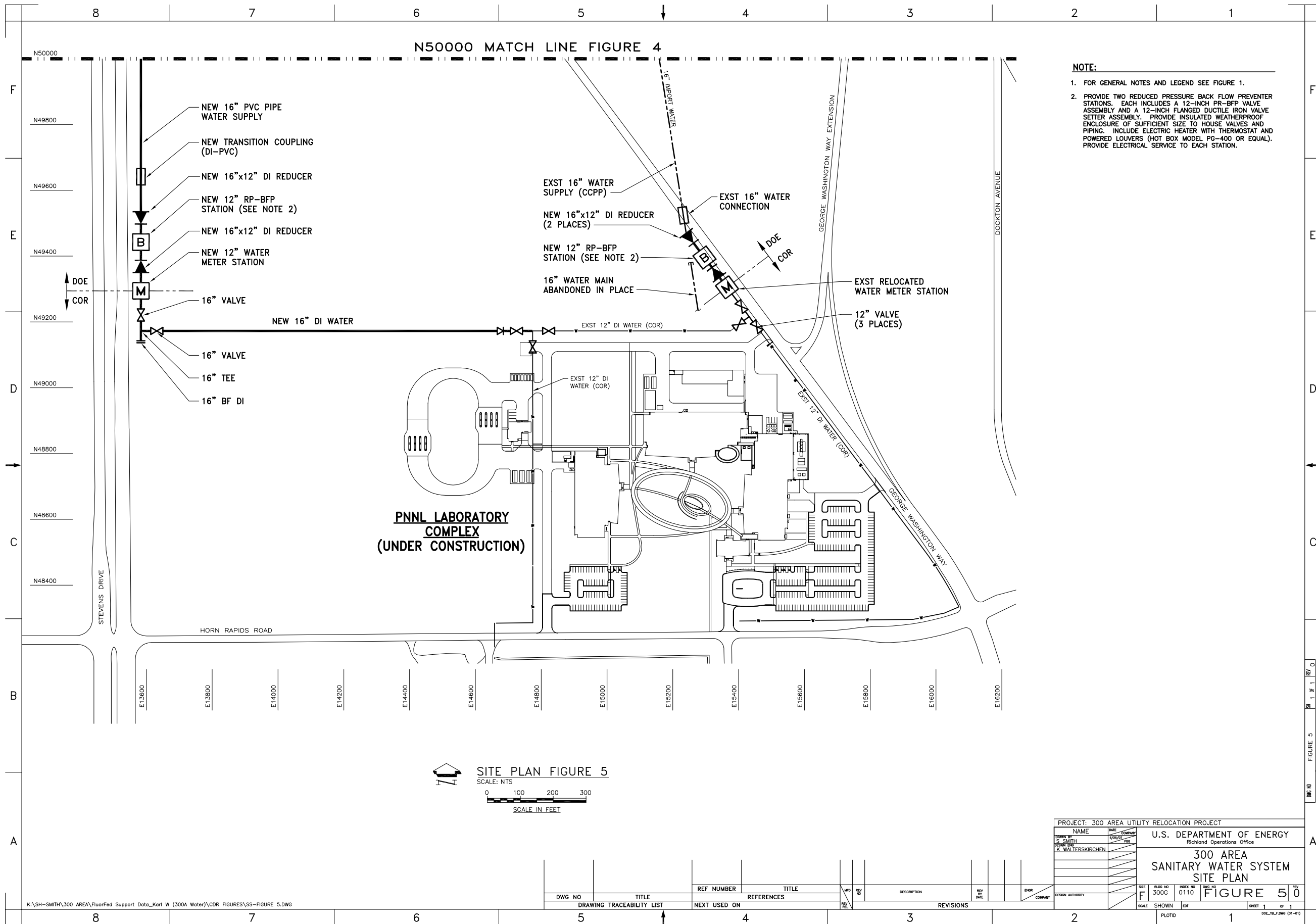
K:\SH-SMITH\300 AREA\FloorFed Support Data\_Karl W (300A Water)\GDR FIGURES\SS-FIGURE 3.DWG

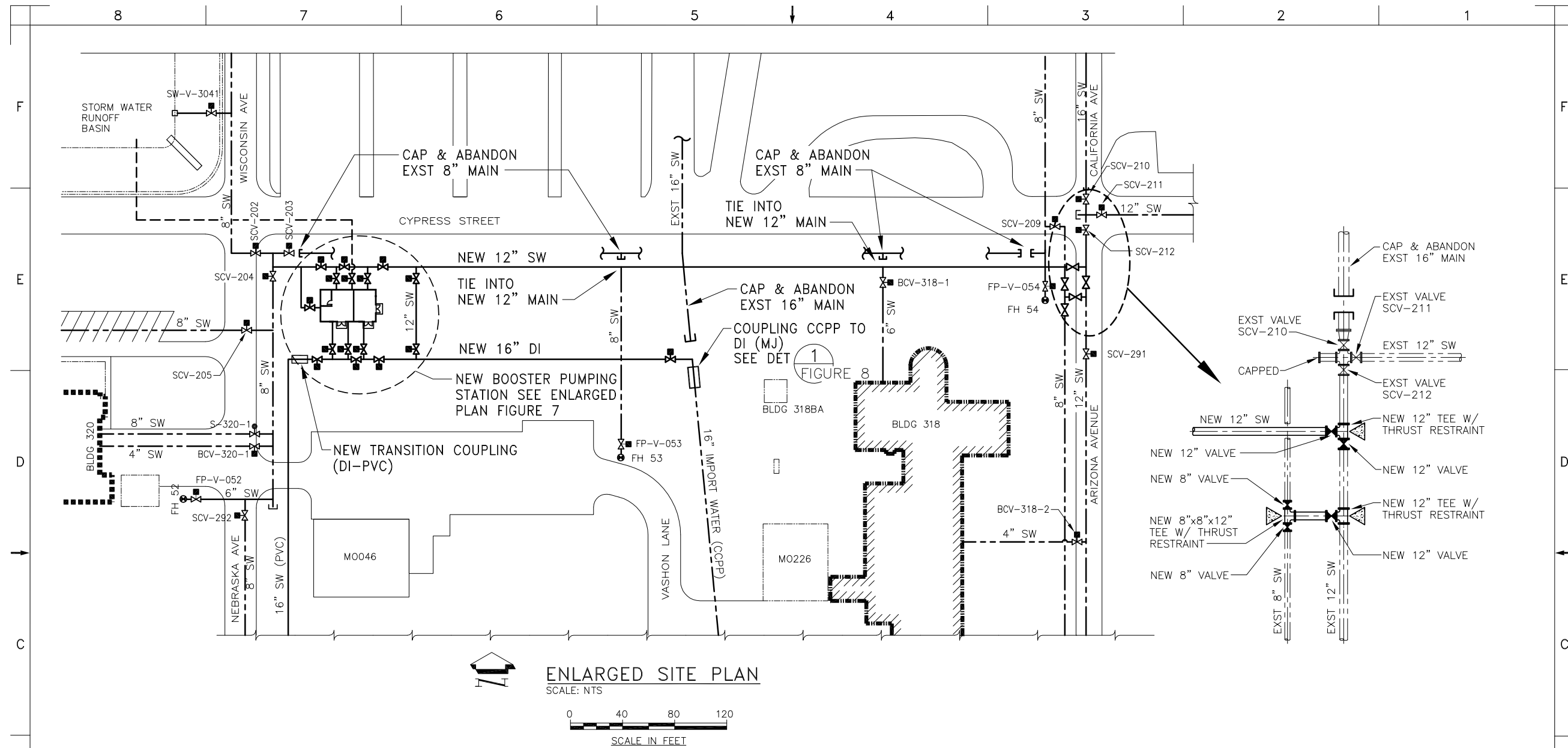
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	DRAWING TRACEABILITY LIST		REFERENCES				

PROJECT: 300 AREA UTILITY RELOCATION PROJECT			
NAME	DATE	COMPANY	
S. SMITH			
K. WALTERSKIRCHEN			
U.S. DEPARTMENT OF ENERGY Richland Operations Office			
300 AREA SANITARY WATER SYSTEM SITE PLAN			
FIGURE 3.0	BLDG NO 300G	INDEX NO 0110	DWG NO
SCALE SHOWN	EDF		FIGURE 3.0
PLOTTED			SHEET 1 OF 1









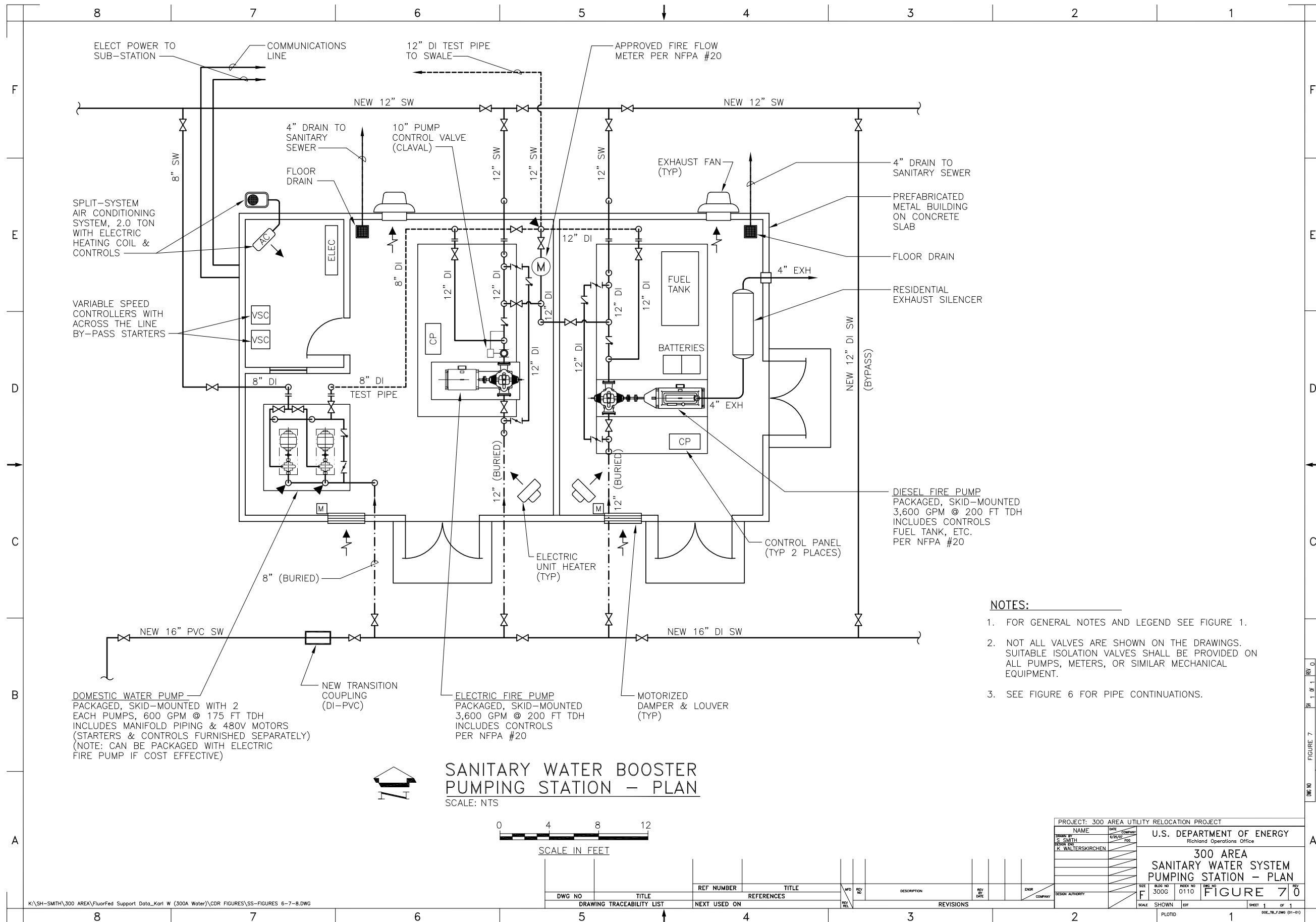
**ENLARGED SITE PLAN**  
SCALE: NTS  
0 40 80 120  
SCALE IN FEET

**NOTE:**  
FOR GENERAL NOTES AND LEGEND SEE FIGURE 1.

K:\SH-SMITH\300 AREA\FloorFed Support Data\_Karl W (300A Water)\CDR FIGURES\SS-FIGURES 6-7-8.DWG

DWG NO	TITLE	REF NUMBER	TITLE	DESCRIPTION	REV DATE	ENGR	COMPANY
	DRAWING TRACEABILITY LIST		REFERENCES				

PROJECT: 300 AREA UTILITY RELOCATION PROJECT			
NAME	DATE	COMPANY	
S. SMITH			
K. WALTERSKIRCHEN			
U.S. DEPARTMENT OF ENERGY Richland Operations Office			
300 AREA SANITARY WATER SYSTEM PUMPING STATION SITE PLAN			
FIGURE 6	REV 0		
SCALE	SHOWN	EDR	PLOTTED



- NOTES:**
- FOR GENERAL NOTES AND LEGEND SEE FIGURE 1.
  - NOT ALL VALVES ARE SHOWN ON THE DRAWINGS. SUITABLE ISOLATION VALVES SHALL BE PROVIDED ON ALL PUMPS, METERS, OR SIMILAR MECHANICAL EQUIPMENT.
  - SEE FIGURE 6 FOR PIPE CONTINUATIONS.

**SANITARY WATER BOOSTER PUMPING STATION - PLAN**  
SCALE: NTS



PROJECT: 300 AREA UTILITY RELOCATION PROJECT			
NAME	DATE	COMPANY	
S. SMITH			
K. WALTERSKIRCHEN			
U.S. DEPARTMENT OF ENERGY Richland Operations Office			
300 AREA SANITARY WATER SYSTEM PUMPING STATION - PLAN			
SIZE	BLDG NO	INDEX NO	DWG NO
F	300G	0110	FIGURE 70
SCALE	SHOWN	EDT	SHEET 1 OF 1
			DWG TITLE / DWG (S1-01)

DWG NO	TITLE	REF NUMBER	TITLE	DESCRIPTION	REV DATE	ENGR	COMPANY	DESIGN AUTHORITY



**APPENDIX F**  
**300 AREA WASTEWATER SUMMARY**



## **OPTIONS FOR THE DISPOSITION OF WASTEWATER FOR 300A RETAINED FACILITIES**

### **1.0 Introduction**

The Washington Closure Hanford (WCH) River Corridor Closure (RCC) scope includes the deactivation, decommissioning, decontamination and demolition (D4) of 210 buildings located in the Hanford 300 Area, followed by field remediation of waste sites in the affected areas. Thirteen facility complexes in this area are currently occupied by the Pacific Northwest National Laboratory (PNNL) and have a delayed release to WCH.

The RCC contract specifies a release date of October 1, 2009 for turnover of these facilities. However, the Department of Energy, Richland Operations Office (RL) has informed WCH that the replacement laboratory facilities that will be used to relocate PNNL's activities will not be ready for occupancy by the 2009 release date and changes to the WCH contract will be necessary. Several of the facilities will be retained by PNNL long-term (assumed > 20 years) and several support facilities will be retained by other Hanford contractors such as the Project Hanford Management Contractor (PHMC) or Johnson Controls, Inc. (JCI).

The purpose of this document is to outline the options for disposition of wastewater utilities required to serve delayed release and retained 300A facilities occupied by PNNL, PHMC and JCI. There are four active wastewater disposal systems in the 300A which are required to support continued operations beyond 2009:

1. Sanitary sewage is currently routed to the Richland Publicly Owned Treatment Works (POTW) and discharged to the Columbia River following treatment. *Note: No change is proposed to the final disposal method for existing sanitary sewage. Reroutes of the sewer and lift stations are necessary due to waste site remediation activities that will impact the existing active sewer mains.*
2. Wastewater from the Process Sewer (PS) is routed to the 300A Treated Effluent Disposal Facility (TEDF) and discharged to the Columbia River following treatment. *Note: TEDF is currently anticipated to be terminated at the end of FY 2009 and turned over to WCH.*
3. The Retention Process Sewer (RPS) collects wastewater from buildings 324, 325, 326, 327 and 329. RPS wastewater has the potential to contain radioactive materials in an upset condition; however it is normally expected to be free of radioactive contamination. Wastewater from the RPS is collected at the 307 basins and screened for the presence of radioactive materials. Under normal operations the RPS wastewater is discharged to the 300A TEDF.
4. Storm water collection and disposal in the 300A is achieved via a variety of methods including: disposal to engineered storm water system such as grassy swales or injection wells; and cross connections to the PS and possibly the SNS.

## **2.0 Disposition of Wastewater from the Sanitary Sewer (SS)**

There is not an identified alternative to the final disposition pathway for the sanitary sewer system. The current tie-in to the City of Richland main near George Washington Way and Horn Rapids Road is assumed to be retained via an existing trunk sewer running along George Washington Way starting near Cypress Street and using the sample station near the 300 area perimeter, 3906C.

Reroutes of the sanitary sewer mains will be required using lift stations and force mains to provide a pathway avoiding field remediation planned excavations that will impact the existing active sewer mains. A summary of the disposition pathways is provided below. For each pathway there are minor design options that the final design will incorporate, these options were evaluated by the 300 Area Utility Relocation Project core team.

Facilities located East of George Washington Way (Buildings 331, 331-C, -D, -G, -H and -BA) will require no modification and will continue to flow through existing Lift Station #2 (LS #2, also identified as 3906B) located near the NE corner of Building 337, except the process sewer and sanitary sewer will be interconnected in the parking lot outside Building 331. All retained facilities south of Cypress Street (Buildings 318, 320, 350, 339-A, Mobile Office trailers) will continue to flow through the existing gravity sewer system and upon collection will be pumped through a new lift station LS #11, located at the intersection of Cypress and Vail Avenue (NW corner of Building 320), through a new pressure (force main) pipe system to discharge into the interceptor at George Washington Way. Flows from Buildings 3709A and 3220 will be collected in a new lift station LS #10 through existing and new gravity sewer laterals and pumped through a force main sleeved through the unused portion of the sanitary sewer system in Vail Avenue to LS #11. In addition, two lift stations LS#13 and LS#14 will be built in Spruce Street to collect wastewater from Buildings 325, 326, 329 and 3790. LS#13 will be located in the SW corner of #326 to collect and pump wastewater from #326 and #329 and discharge into LS#14 located at NW corner of #325. LS#14 will also collect the waste water from #325, #3790, a portion of #326 and RPS tank pad and pumps to LS#11. LS #11 pumps all of the sanitary waste water from the retained buildings north and south of the Cypress street and West of George Washington Way to the interceptor where the discharges are commingled with flows from the LS #2, and delivered into the city sewer system.

## **3.0 Disposition of Wastewater from the Retention Process Sewer (RPS)**

### **3.1 INTRODUCTION**

The 300 Area retention process sewer (RPS) stream for buildings 325, 326, and 329 currently flows to the 307 basins and then to TEDF. Since TEDF is scheduled for deactivation before the RPS system is deactivated, an alternate means of managing the RPS effluents from the 325, 326, and 329 buildings is required. In addition, it was proposed that the Process Sewer streams be tied into the RPS stream for the 326 and 329



buildings. This was based on an assumption that the PS stream from 326 and 329 could not be introduced into the sanitary sewer (SS) system.

## 3.2 SCOPE

### 3.2.1 RPS Disposition

The conceptual design provides layouts, general arrangements, and calculations to support the rerouting of the current RPS stream to a holding tank system. The holding tank system has provision for sampling of the RPS fluids prior to routing to the sanitary sewer (SS-83). A load-out station is also provided to manage alternate disposal of contaminated fluids. A similar holding tank system is located at the Environmental Molecular Sciences Laboratory (EMSL). This system was directly used to model the 300 area holding tank system.

### 3.2.2 Process Sewer Tie-In

The conceptual design also includes the necessary modifications to tie the PS streams into the RPS streams within the 326 and 329 buildings.

### 3.2.3 Stormwater Isolation

There is currently, one storm catch basin located on the east side of the 329 building that is tied into the RPS system. The RPS holding tanks will not be large enough to manage stormwater as well as RPS streams. In addition, the City of Richland has stipulated that it is not acceptable to route stormwater into the SS system. The tie-in must therefore be isolated.

## 3.3 SIGNIFICANT DESIGN CRITERIA

### 3.3.1 Criteria

Criteria for the RPS system reroute and PS tie-ins have been established and are as follows.

- The RPS collection system shall have the capability to transfer wastewater to a tanker truck for wastewater which does not comply with the treatment facility's acceptance criteria.
- The RPS collection system provide sufficient (~1 week per tank) storage capacity to allow operation in the following mode:
  - One active tank / basin filling
  - One full tank / basin awaiting sampling and analysis
  - One additional tank / basin to hold off spec wastewaters requiring load-out by tanker truck.

- One standby tank / basin
- Non-radiological facility wastewater discharges such as boiler blow down or roof / parking lot runoff should be segregated from the RPS collection system.

### 3.3.2 Codes and Standards

- Uniform Plumbing Code
- City of Richland Standard Specification Section 7
- NFPA 70 – National Electrical Code
- NFPA 820 – Standard for Fire Protection in Wastewater Treatment and Collection Facilities
- City of Richland Municipal Code, Richland Pretreatment Act – Chapter 17.30

## 3.4 FUNCTIONAL OBJECTIVES

### 3.4.1 Effluent Flows

Effluent flow rates from the buildings are listed below. While there are efforts underway to reduce flows, these efforts are not yet complete. It is therefore necessary at this stage of the design to account for the known flows as listed.

- 325 RPS – 4 gal/min
- 326/329 RPS – 5 gal/day
- 326 PS – 100 gal/day
- 329 PS – 44 gal/day

### 3.4.2 Tank Load-Out Facility

The tank load out facility must accommodate a tanker sized vehicle. During load-out activities, the vehicle must be located on a concrete pad that provides spill containment and routing to a sump that pumps spillage back to one of the holding tanks. The tanks are to be located on a pad that provides spill containment for a minimum of 10% of the total tank volume, or the volume of the largest tank, whichever is larger.

## 3.5 CONCEPTUAL LAYOUTS AND GENERAL ARRANGEMENTS

The overall concept of the 300 Area Retention Process Sewer system reroute consists of 3 primary activities.

### 1. Lift Station

All retention process sewer lines between the 325, 326, and 329 buildings currently flow to the existing RPS-3 manhole, and then through an existing 8” clay pipe to the existing

307 basins. The 8" line is to be capped off, and a new lift station is to be installed in the RPS-3 manhole. A new 1" PVC discharge line is to be installed in the RPS-3 manhole from the new dual sump pumps to feed the RPS Load-Out Station. A new valve box is installed over the discharge line to provide access to check valves and isolation valves in the new discharge line.

## 2. RPS Load-Out Station

The RPS Load-Out Station will consist of four, 4300 gallon tanks situated on a 30' x 30' pad with appropriate spill containment. Tank EFT-1 will be the active tank, continually receiving effluent from RPS-3. When EFT-1 is full, it is emptied to EFT-2 to await sampling and analysis. Should the analysis show that the contents of EFT-2 require load out, it will be transferred to EFT-3. Otherwise, tank EFT-2 is gravity drained through a 2" PVC line to the sanitary sewer at the SS-83 manhole. The control system will time the drain to SS-83 during a time of low SS flow, such as 0100 hours. Tank EFT-4 will be a stand-by tank.

A new asphalt drive and concrete pad with spill containment are also provided for load-out activities. The truck will receive the EFT-3 contents while parked on the concrete pad. Both pads will be covered to prevent stormwater from accumulating in the sump. All spillage from at the truck pad or tank pad will be routed to the central sump and returned to tank EFT-1.

Adequate valving and piping will be provided such that any tank can serve any of the functions described.

## 3. Process Sewer to RPS Tie-ins

The process sewer (PS) streams at the 326 and 329 buildings will be tied into the RPS stream prior to exiting the buildings.

### a. 329 PS Tie-in

The 329 tie-in is to be located on the north wall of the service tunnel and is described in Figure 5. The 3-inch carbon steel PS lines will be cut, capped, and converted to PVC lines as they tie-in to the 4-inch stainless steel RPS line.

### b. 326 PS Tie-in

The PS stream will be collected in a new sump, located in room 21-A, in the basement. The existing 8" PS line exiting the building in that room will be capped. The sump will collect the discharge from the 8" line and several additional existing lines in located in the room. A new sump pump will send the contents of the 50 gallon sump through a 1" PVC line to room 24-A1, where the RPS stream is collected and routed to the existing RPS-2 manhole just outside the building. The new 1" PVC line ties into an existing 2" carbon steel line in room 24-A1, just above the ceiling tiles.

Secondarily, there is one stormwater catch basin currently tied into the RPS stream at the South East corner of the 329 building. This 4-inch PVC line is to be cut and capped as shown in Figure 1 to isolate stormwater flow to the RPS Load-Out Tanks.

### 3.6 FLOW DIAGRAMS

Process and Instrumentation Diagrams (P&IDs) were available from the EMSL design.

### 3.7 SIZING AND PROCESS CALCULATIONS

Calculation document 0300X-CA-M0001 was developed for the RPS reroute and contains all pertinent conceptual level calculations.

### 3.8 PRELIMINARY DESIGN PARAMETERS

The following parameters will need to be addressed at preliminary design.

#### 3.8.1 Effluent Flow Rates

As previously mentioned, a PNNL effort is underway to reduce flows from the 325, 326, and 329 buildings. Flow criteria will need to be finalized based on those efforts.

#### 3.8.2 Tanker Truck Configuration

The conceptual design does not account for any specific requirements that the tanker truck may have for load out. A specific truck will need to be identified from which the load out facility design can be finalized.

#### 3.8.3 Site Characterization

Building 328 currently exists at the proposed site for the tank load out facility. If building 328 has been remediated prior to preliminary design, then the site will need to be characterized for the spill containment pad, load-out pad, and road design.

#### 3.8.4 Component Sizing

Components were sized and selected as follows.

#### Tank Drain to SS-83:

The drain line from the tanks to the SS-83 manhole is to be a 2-inch schedule 40 PVC pipe. PVC pipe was selected for all piping in the RPS reroute, since some of the existing RPS lines have already been converted to PVC.

RPS-3 Lift Station:

The RPS-3 Lift station discharge line is to be a 1-inch schedule 40 PVC pipe. The pump for the lift station is to be an Aquatic ECO-Systems Inc., Model SP750 (or equivalent) high-head submersible pump, operating at 20gpm and 30ft head.

326 Process Sewer Sump Dimensions:

The new sump for the 326 process sewer is to be 2 foot square, by 3 foot deep. The width dimension is restricted; however the remaining dimensions can be increased as needed. The volume of the sump is sized to handle 50 gallons of the 100 gal/day PS flow.

326 Process Sewer Sump Pump and discharge line:

This sump pump is sized to provide 18 gpm at 36 feet head through a 1-inch schedule 40 PVC pipe.

Tank Pad Spill Containment Curb:

The spill containment curb surrounding the retention tank pad is required to be 3" high, to contain 10% of the total volume of the 4 tanks as required per WCH-56.

Load-Out Tanks:

The load out tanks were sized to 4300 gallons based on known flows to TEDF from the 300 Area RPS system. It so happens that the tanks used at the EMSL design were the exact size required based on the known flows. As a result, the complete EMSL design was adapted to the 300 Area RPS Load Out system. The material of the tanks was selected to be FRP due to the universal compatibility with potential constituents within the RPS stream.

### 3.9 MATERIAL SELECTION, PROCUREMENTS SPECIFICATIONS

Procurements specifications will need to be written for the following components.

1. Tanks. The four tanks have been conceptualized as 4300 gallon tanks fabricated from fiberglass reinforced plastic (FRP). The tanks are free standing and elevated to allow full drainage from a bottom center fitting.

2. Pumps. Three sump pumps are needed; two for the RPS-3 lift station and one for the new 326 building PS sump. The pumps selected in the analysis are the Aquatic Eco-Systems, Inc, High Head submersible pump, model SP750, but any submersible pump providing equivalent flow and head characteristics is acceptable. The load out pumps were not sized or selected since the characteristics of the receiver truck were not known. The pumps shown were simply copied from the EMSL design, which featured tanks that were located in a below-grade vault. It is quite possible that the final design of the load out facility could eliminate the need for the pumps entirely.
3. "Rain Hat." It is suggested that the carport-like structure over the tank load out facility be specified and procured from a vendor specializing in such structures.

### 3.10 ENVIRONMENTAL IMPACT

There is no expected environmental impact. The RPS and PS effluents from buildings 325, 326, and 329 are contained in their entirety and sampled prior to release or load-out. All new installations of piping and facilities are being located at pre-existing facility or road locations. No significant radiological or chemical hazards are foreseen for construction or isolation activities.

### 3.11 LONG LEAD PROCUREMENT ITEMS

The FRP tanks are expected to be long lead items requiring approximately 3 weeks for vendor drawings and 16 weeks to fabricate.

### 3.12 IDENTIFICATION OF POTENTIAL SAFETY HAZARDS AND PROVISIONS FOR HAZARD CONTROLS

No safety hazards other than occupational during construction are foreseen.

### 3.13 ESTIMATED PROCUREMENT/CONSTRUCTION SCHEDULE.

While the tanks are long-lead items, they are not required at the start of construction. Delivery of the tanks should coincide with construction completion of the pad on which they are installed. Procurement/construction duration is estimated to 6 months. This does not include final design, which precedes the construction start date, but could end during the first phases of construction.

## **4.0 Disposition of Stormwater**

300A Wastewater Options

28June 2007  
Page 8 of 13

#### 4.1 INTRODUCTION

The 300 area storm water system consists of roof drains, downspouts to ground, injection wells, catch basins, and a grassy swale. In some cases, storm water is interconnected with Retention Process Sewer (RPS), or Process Sewer (PS). City of Richland Pretreatment Ordinance prohibits storm water from being discharged to the City of Richland sanitary sewer, which is the ultimate destination of RPS or PS streams\*. While all buildings have storm water run-off engineered or otherwise, only a few result in potential discharge to non-permitted destinations.

\*City of Richland Pretreatment Ordinance, Exhibit A to Title 17.30, Part 2, "General Requirements", section 2.1, "Prohibited Discharge Standards", (12), "Stormwater, surface water, ground water, artesian well water, roof runoff, subsurface drainage, swimming pool drainage, condensate, deionized water, non-contact cooling water and unpolluted wastewater, unless specifically authorized by Public Works Director."

#### 4.2 SCOPE

The conceptual design is limited to the buildings at which there are cross connects with the storm water streams. Table 1 provides a list of the buildings within scope and the nature of their cross connects.

Building	Nature of Cross-Connect	Proposed Resolution
3709A	Roof drain goes to the sanitary sewer	Reroute drains to the building exterior.
3790	4 catch basins to the NE are connected to the PS (H-3-304714 SH. 3)	The 4 basins are in series. Isolate the most downstream basin by partially filling with concrete. Resulting surface flow gravity flows toward the stormwater swale at Cypress Street as is currently occurring due to sediment blocking the catch basins.
329	Catch Basins at SE corner connect to RPS.	Cut and cap cross connection, then install a lift station and route about 120 feet of 2" line to the catch basins located on the SW corner of the building (H-3-300799). These CB's are connected to the swale.
318	A drain located in a below grade load-out area may be connected to the sanitary sewer within the building.	Reroute the drain to a new lift station to be installed in the load-out area. Route the discharge to grade.
331	A line on the north side of the building is fed by storm water and condensate from within the mechanical rooms 100 and 118. There are two additional storm	Plug all interconnecting floor drains and route all lines flowing to the floor drains in rooms 100 and 118 to a new sump and lift station. Discharge the lift station to a new header on the north

Building	Nature of Cross-Connect	Proposed Resolution
	water lines that feed into the fish tank drains on the south side of the building.	side of the building and route it to sanitary sewer. Storm drains on the south side of the building interconnected with the fish tank drain is not considered to be in scope.
326	There is a known cross connect at the east storm drain with the SS; however it has been plugged.	Install a new lift station to convey storm water to the new lift station being installed at the south east corner of the 329 building.

### 4.3 SIGNIFICANT DESIGN CRITERIA

#### 4.3.1 Criteria

Existing storm water connections to the sanitary sewer and process sewer need to be re-routed to existing or new storm water structures.

Criteria for storm water discharge are found in State Waste Discharge Permit Number ST 4511, issued February 16, 2005. Storm water regulated under the permit is defined per section S.1.A.3 as:

*“...industrial stormwater that discharges to ground **and** is collected in an engineered structure **and** is subsequently discharged to an engineered disposal structure.”*

The three underlined terms are defined within the permit language as follows.

**Industrial Stormwater.** Stormwater discharge with the potential to come in contact with an industrial activity or that is collected within an area of industrial activity.

**Collected in an Engineering Structure.** Stormwater must be collected in a structure such as a lined trench, basin, retention structure, secondary containment, tank, sump, roof, and other impervious surfaces directly associated with industrial activities.

**Discharged to an Engineered Structure.** The industrial stormwater must be discharged to an engineered disposal structure such as an injection well, dry well, catch basin, infiltration basin, infiltration trench, or retention basin.

#### 4.3.2 Codes and Standards

- Uniform Plumbing Code
- City of Richland Standard Specification Section 7



- NFPA 70 – National Electrical Code
- NFPA 820 – Standard for Fire Protection in Wastewater Treatment and Collection Facilities
- City of Richland Municipal Code, Richland Pretreatment Act – Chapter 17.30

#### 4.4 FUNCTIONAL OBJECTIVES

Cross connections of the storm water streams with process or sanitary sewer streams must be eliminated prior to tie-in of remaining process sewer contributors to the sanitary sewer.

#### 4.5 CONCEPTUAL LAYOUTS AND GENERAL ARRANGEMENTS

The following describes the conceptual design for the reroutes of storm water at each applicable facility.

##### Building 3790

To the north east of building 3790, there are four catch basins. The catch basins are installed in series. Drawings indicate the catch basins are tied into the process sewer system. Field observations during rain fall indicate that the basins may be clogged or plugged. However, the design delineates the necessary activities to ensure the basins are plugged and do not connect with the process sewer. Field observations also indicate that plugging the basins will not affect appropriate storm water drainage of the area.

##### Building 3709A Fire Station

The fire station has four roof drains that are interconnected with the sanitary sewer system. The design conceptualizes routing each roof drain to the exterior of the building and subsequently allowing the stormwater to flow to ground.

##### Building 326

There is a catch basin at the bottom of the loading doc on the east side of the building. This catch basin is currently plugged; however a long term solution is required to manage stormwater collection in that area. A lift station is conceptualized to receive the stormwater from the loading doc and discharge it towards building 329, to a new lift station that is being installed at the south east corner of the building.

##### Building 329

Two catch basins on the south east corner of the building collect stormwater and route it to the RPS system. The concept is to cap the RPS connection and reroute the catch basin discharge to a new lift station at the south east corner of the building. The lift station discharges stormwater to one of two existing catch basins on the south west corner of the building. These catch basins feed to the grassy swale. As stated previously, the new lift station also receives stormwater from the south east loading dock at building 326.

#### Building 318

There is a loading dock on the North West corner of the building that is about 14 feet below grade. Steps lead down to the floor of the loading dock. There is a floor drain at the bottom of the loading dock that reportedly is cross connected with the sanitary sewer. While this connection could not be verified, the design conceptualizes a lift station installed in the floor of the loading dock that receives re-routed stormwater from the drain and discharges it to ground at grade level.

#### Building 331

The primary roof drains are routed through the building and pick up process streams from various floor drains. This is shown diagrammatically in H-3-57950. According to the building engineers, all other process flows are routed to the mechanical rooms (rooms 100 and 118) where they are collected in floor drains, which are again tied into the roof drain piping and routed to a header below grade on the north side of the building. The header is routed through a number of catch basins and then to a manhole that sends the process/stormwater to a process sewer main. The concept is to plug all of the floor drains that connect to roof drain piping, and re-route process lines to a sump in each of the mechanical rooms. The sumps discharge process streams to a new header to be installed on the north side of the building and routed to sanitary sewer. This leaves only storm water flowing into the existing header on the north side of the building. The connection downstream of the manhole is then capped and the stormwater is then routed to an injection well 300 feet from the building to be in compliance with permit 4511 to maintain a 300 foot boundary with WIDS sites that happen to exist in the area.

#### 4.6 FLOW DIAGRAMS

No flow diagrams were prepared as a part of the conceptual design.

#### 4.7 SIZING AND PROCESS CALCULATIONS

No calculations were necessary or prepared as a part of the conceptual design.

#### 4.8 ENVIRONMENTAL IMPACT

There is no expected environmental impact.

#### 4.9 LONG LEAD PROCUREMENT ITEMS

No long lead procurement items are anticipated.

#### 4.10 IDENTIFICATION OF POTENTIAL SAFETY HAZARDS AND PROVISIONS FOR HAZARD CONTROLS

No safety hazards other than occupational during construction are foreseen.

#### 4.11 ESTIMATED PORCUREMENT/CONSTRUCTION SCHEDULE.

Procurement of items is estimated to require 1 month and construction to require 3 months to modify all facilities in scope.

### **5.0 Disposition of Process Sewer**

Current contributors to the process sewer will be split into three disposition pathways and discharges to the 310 TEDF will be discontinued. Stormwater contributors will be addressed as described in section 4.0. Process sewer discharges from Buildings 326 and 329 will be combined with the Retention Process Sewer stream as described in Section 3.0. Remaining process contributors in the 318, 320, and 331 buildings will be permitted using the City of Richland Municipal Pretreatment Permit process and tied into the sanitary sewer system.



**APPENDIX G**  
**300 AREA SANITARY SEWER DECISION MEETING**



**WCH** Washington  
Closure  
Hanford  
**Meeting Minutes**

134176

**SUBJECT** SUMMARY OF DECISION MEETING FOR SANITARY SEWER SYSTEM OPTIONS 300  
AREA UTILITY RELOCATION PROJECT

**TO** Distribution

**FROM** John N. Winters *mw*

**DATE** June 12, 2007

**ATTENDEES**

T. Ambalam E6-46, w/a  
S. I. Bennion H7-21, w/a  
S. R. Cassidy J2-45, w/a  
E. G. Damberg J2-25, w/a  
R. Gerck J2-18, w/a  
C. MacDonald J2-45, w/a  
G. M. MacFarlan L6-06, w/a  
D. J. McBride H4-15, w/a  
D. J. Ortiz A3-04, w/a  
B. W. Wilcox H4-15, w/a  
J. N. Winters H4-20, w/a

**DISTRIBUTION**

Attendees  
D. E. Dieterle L1-04, w/a  
R. G. Egge X5-50, w/a  
R. F. Guercia A3-04, w/a  
D. J. Tollefson E6-29, w/a  
J. Turner K9-42, w/a  
D. M. Yasek L1-07, w/a  
Document Control H4-11

On May 30, 2007, a decision meeting was held to review and rank the two options for sanitary sewer system modification as part of the 300 Area Utility Relocation Project. The Wastewater Discipline Team discussed the pros and cons of the baseline and alternative options. Each option can provide sanitary sewer service to the retained facilities in the 300 Area. In Attachment 1, Tom Ambalam/Fluor Federal Services summarizes the key differences in the options. This information was distributed and reviewed at the beginning of the decision meeting. During the meeting, the conceptual cost estimates for the Baseline and Alternate options were given by Bruce Wilcox/WCH as \$620,000 and \$867,000, respectively. These cost estimates include a 30% contingency amount.

A ranking process used in the electrical and water utility options decision meetings was used at the May 30 meeting to rank the sanitary sewer options. The same selection criteria and weighting factors were also used.

As with previous decision meetings, the attendees discussed how each option could satisfy each selection criterion and then arrived at a consensus of a grade between high and low (available grades included H, H-, M+, M, M-, L+ or L). A spreadsheet (Attachment 2) was used to document the grade assignments. Using the weighting factors assigned and a score associated with each grade (see lower left corner of ranking spreadsheet for weighting factor and grade scores), a weighted score was calculated for each option.

The resulting weighted scores for the sanitary sewer system options were compared against the total possible points. Using the ranking spreadsheet (Attachment 2), the Baseline and Alternate options scored 70 and 71%, respectively. Based on the fact that the baseline option maintains the use of a sewer pipeline

Distribution  
Page 2

on Spruce Street adjacent to the 325 Facility (which was raised as an area of potential concern by regulators) while the alternate option eliminates the use of this sewer pipeline, it was the consensus of the decision meeting participants that the Alternative Option is the recommended option.

Following the ranking meeting, Mr. Wilcox updated the cost estimate for the alternate option to include additional scope that would have also applied equally to the baseline option. With that update, the estimated cost is \$903,000. That updated cost estimate summary is provided in Attachment 3. The cost summary also includes a scope description of the major components for the Alternate Option.

- Attachments:
1. Sanitary Sewer System Options - Baseline and Alternative Option Comparison (1 page)
  2. Sanitary Sewer Options Worksheet (2 pages)
  3. Cost Estimate Summary for Sanitary Sewer Alternate Option (1 page)



ATTACHMENT 1

SANITARY SEWER SYSTEM OPTIONS - BASELINE AND ALTERNATIVE OPTION  
COMPARISON

(consisting of 1 page)

## ATTACHMENT 1

### SANITARY SEWER SYSTEM OPTIONS

By Tom Ambalam/Fluor Federal Services

#### PROJECT: 300A - URP

The tabulation below compares the two options (Baseline and Alternate) for Sanitary Sewer System Modifications in the Project: 300 A – URP.

**Baseline Option** -Sewer system layout depends on the existing pipelines in Spruce Street, regardless of its condition or adjacent utilities, involves a lift station (LS-12) and avoids excavation in the congested utility corridor, except at the intersection of Spruce at California.

**Alternate Option** -Sewer system layout avoids the use of the sewer pipes within the Spruce Street by intercepting the flows upstream at Wisconsin Street and involves two pump stations (LS-13 by #326 and LS-14 by #325). Shallow excavation for RPS and laterals across and adjacent to the congested utility corridor of Spruce street will be required.

**Table: Comparison of Sewer System Options**

No	BASE LINE OPTION SANITARY SEWER SYSTEM		ALTERNATE OPTION SANITARY SEWER SYSTEM	
1	Construction costs lower by \$200 K	+	Construction costs higher	-
2	Operation and maintenance costs will lower with one lift station though pipe lengths are longer	0	Operation and maintenance costs will be higher with additional lift station for short term and pipe liners are shorter	0
3	Requires less of operation and maintenance of a lift station (LS-12)	+	Requires additional lift station(LS-13), though short term	-
4	Without the evaluation of sewer pipes for condition, leaks or future serviceability may be at risk.	-	Regardless of condition of the sewers in the Spruce street the system will function during its service life- the risk of contamination spread due to leaks or excavation is minimized.	++
5	Excavation near contamination zone is not a significant risk and potential for cost escalation is minimized.	+	Lift station #14 is located near a UPR at #325 and the proximity of UPR may escalate cost of construction beyond contingencies	-
6	Construction schedule for completion is not dependent on site conditions involving contamination	+	Construction schedule may depend on site conditions due to the proximity of the UPR and the congested corridor	-
7	Regulator acceptance is a concern due to potential for old vitrified clay pipe to leak during service	-	Regulator acceptance anticipated to be high because of responsiveness to concern for waste piping underlying Spruce Street	++

ATTACHMENT 2

SANITARY SEWER OPTIONS WORKSHEET

(consisting of 2 pages)

300 Area Utility Relocation - Sanitary Sewer Options Worksheet

*Baseline Option - Use of Spruce St sewers and LS-12*  
*Alternative Option - Avoids Use of Spruce St sewer and uses LS-13 and LS-14*

SELECTION CRITERIA (with related considerations listed below it)	Criteria Weighting Factor*		
<b>Meets functional requirements</b>	0	H	H
<b>Acceptable to regulators</b> Impact on identified WIDS sites. Is there an opportunity for valid mitigation of the impact. Impact on TPA milestones and can they be mitigated What is the overall level of acceptance by the regulators?	5	M	H
<b>Meets schedule constraints</b> Does the option cross a \$5M threshold for capital line item? Can construction be sequenced to support completion of the project?	0	H	H
<b>Best Value to the Government</b> Initial construction cost Future O&M cost	5	H	M
<b>Reasonable Expectation for reliable utility system during expected 20 yrs ops of retained fac.</b>	3	M	H
<b>Minimizes safety and health risk</b>	5	H	M
<b>Minimizes impact to cleanup activities</b>	4	M	H
<b>Provides for Continuity of Operations for 300 Area Research and Development</b>	4	H	H

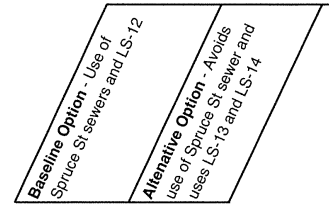
**LEGEND:**

\*Weighting factor: 5 = Related to project safety or project cost; 4 = Compliance related issue and completion of cleanup mission; 3 = Critical issue for meeting RCC contract commitment; 2 = Technical issue; 1 = issue is non-critical but nice to have; 0 = a GO or NO-GO decision

Unweighted score =  
Weighted score =  
% of total available points =

Scoring: L=15, L+=27, M=39, M+=51, M+=63, H=75, H=87, No-Go=X  
File name = Ranking worksheet for 300 Area Sanitary Sewer Options FINAL.XLS

### 300 Area Utility Relocation - Sanitary Sewer Options Worksheet



SELECTION CRITERIA (with related considerations listed below it)	Criteria Weighting Factor*	Baseline Option	Alternative Option
<b>Meets functional requirements</b>	0	87	87
<b>Acceptable to regulators</b> Impact on identified WIDS sites. Is there an opportunity for valid mitigation of the impact. Impact on TPA milestones and can they be mitigated What is the overall level of acceptance by the regulators?	5	51	87
<b>Meets schedule constraints</b> Does the option cross a \$5M threshold for capital line item? Can construction be sequenced to support completion of the project?	0	87	87
<b>Best Value to the Government</b> Initial construction cost Future O&M cost	5	87	51
<b>Reasonable Expectation for reliable utility system during expected 20 yrs ops of retained fac.</b>	3	51	87
<b>Minimizes safety and health risk</b>	5	87	51
<b>Minimizes impact to cleanup activities</b>	4	51	87
<b>Provides for Continuity of Operations for 300 Area Research and Development</b>	4	87	75
	Unweighted score =	588	612
	Weighted score =	1830	1854
	% of total available points =	70%	71%

**LEGEND:**

\*Weighting factor: 5 = Related to project safety or project cost; 4 = Compliance related issue and completion of cleanup mission; 3 = Critical issue for meeting RCC contract commitment; 2 = Technical issue; 1 = issue is non-critical but nice to have; 0 = a GO or NO-GO decision

Scoring: L=15, L+=27, M=39, M+=51, H=63, H+=75, No-Go=X  
File name = Ranking worksheet for 300 Area Sanitary Sewer Options FINAL.XLS

ATTACHMENT 3

COST ESTIMATE SUMMARY FOR SANITARY SEWER ALTERNATE OPTION

(consisting of 1 page)



## Cost Estimate Summary



<b>TITLE:</b>	300 AREA UTILITY RELOCATION PROJECT SANITARY SEWER MODIFICATIONS - ALTERNATE OPTION	<b>Estimate Number:</b>	1004 SS
<b>AREA:</b>	300 Area	<b>Revision:</b>	Rev 2
<b>Estimate Requestor:</b>	D. McBride / Tom Ambalam	<b>WBS Number:</b>	1.04
<b>Prepared By:</b>	bwilcox	<b>Date Prepared:</b>	04/30/06
		<b>Date Revised:</b>	05/30/07
		<b>Estimate Type:</b>	ROM

**1.0 Purpose / Scope Description:**

Estimate modifications to Sanitary Sewer systems for the remaining facilities at the 300 Area.

**2.0 Scope of Estimate**

**SANITARY SEWER MODIFICATIONS - ALTERNATE OPTION**

Existing Sanitary Sewer systems for the 300 Area retained facilities will remain connected and in some cases modified to allow discharge of the total flow to a trunk line connected to the City Of Richland (COR). Current gravity flows will be reversed requiring 4 new lift stations and new sewer lines in several locations.

**NEW LIFT STATIONS:** Install 4 new lift stations (manholes) at strategic locations to collect sanitary sewer flows and pump through force main lines to a connection point with the COR 8" sewer at the George Washington Way extension. Scope includes:

- \* Excavate and install new concrete manholes including weather proof hatch and internal access ladder.
- \* Install dual submersible pumps, valves, floats, pipe, guide rails, lift chain, etc in concrete manholes.
- \* Provide controls panel (including remote alarm and telemetry systems) and new electrical service for each lift station.
- \* Core drill manholes as required to accept electric conduits, upstream and downstream flow piping.
- \* Shoring at excavations as required for UG utility support and safety .

**NEW FORCE MAIN LINES:** Install 2" and 3" lines in shallow excavations between lift stations and existing manholes. Scope includes:

- \* New lines to be 2" or 3" PVC 100 PSI sectional or PE continuous piping. Check valves and gate valves as required.
- \* Includes hot tap into COR 8" force main line at GW Way Extension.

**NEW GRAVITY SEWER LINES:** Install 6" and 8" lines in deep excavations for gravity flows between lift stations and existing manholes. Scope includes:

- \* New lines to be 6" or 8" PVC sectional piping. No check valves or gate valves required.
- \* Includes asphalt cutting and repair following roadway or parking lot crossings.
- \* Shoring at excavations as required for UG utility support and safety .

**SLEEVED FORCE MAIN:** Install 2" PE force main line inside existing 8" gravity sewer line 450 LF between two existing manholes. Scope includes:

- \* Drain, "pig" and clean existing 8" line between manholes and install 2" 100 PSI PE line.
- \* Includes video record of 8" line interior following cleaning.
- \* Seal both ends of 8" at manholes to prevent backflow.

**3.0 Basis and Assumptions:**

1. Options are estimated to be performed by a Subcontractor. Costs for SubK OH&P are included in the estimate.
2. Assume the work for all sewer system modifications will be performed by the same Subcontractor. Costs for mob/demob, Subk Project Mgmt, job site infrastructure, work planning, training, badging and worker physicals for all mods are included in this estimate.
3. Engineering and design basis is conceptual.
4. Labor pricing based on FY07 Hanford Site Stabilization Agreement (HSSA) rates.
5. Equipment priced using 80% of current Blue Book rates.
6. Bulk material pricing and labor unit rates from RS Means Estimating Guide are used where applicable. Local and national vendor pricing is used for major equipment and sub-tier Subcontractors work.
8. See individual estimate sheets for additional scope and assumptions .
9. Costs for Personal Protection Equipment (PPE) and monitoring by Rad Con Techs (RCT) are included as a precautionary measure for some areas where radionuclides may be encountered. However, remediation of impacted materials or soils is not included in this estimate and is not considered as part of this scope.
10. Unit rates for excavation at Spruce St. has been increased where radionuclides or existing underground utilities may be encountered. .

**4.0 Exclusions:**

1. Costs for Contractor overhead, fee, contingency or risk ARE NOT included in this estimate. Costs for WCH or other Hanford Contractors for design, support or oversight ARE NOT included in this estimate.
2. Long term operating (lifecycle) costs ARE NOT included in the estimates.
3. Costs are in current dollars. Costs for escalation ARE NOT included in the estimates.

**5.0 Estimated Cost**

<u>Total estimated cost</u>	<i>Estimated Cost</i>	<i>Contingency %</i>	<i>Contingency \$\$\$</i>	<i>TEC</i>
<b>A-300 Sanitary Sewer Modifications</b>	<b>\$694,353</b>	<b>30%</b>	<b>\$208,306</b>	<b>\$902,659</b>

**6.0 Estimate Review**

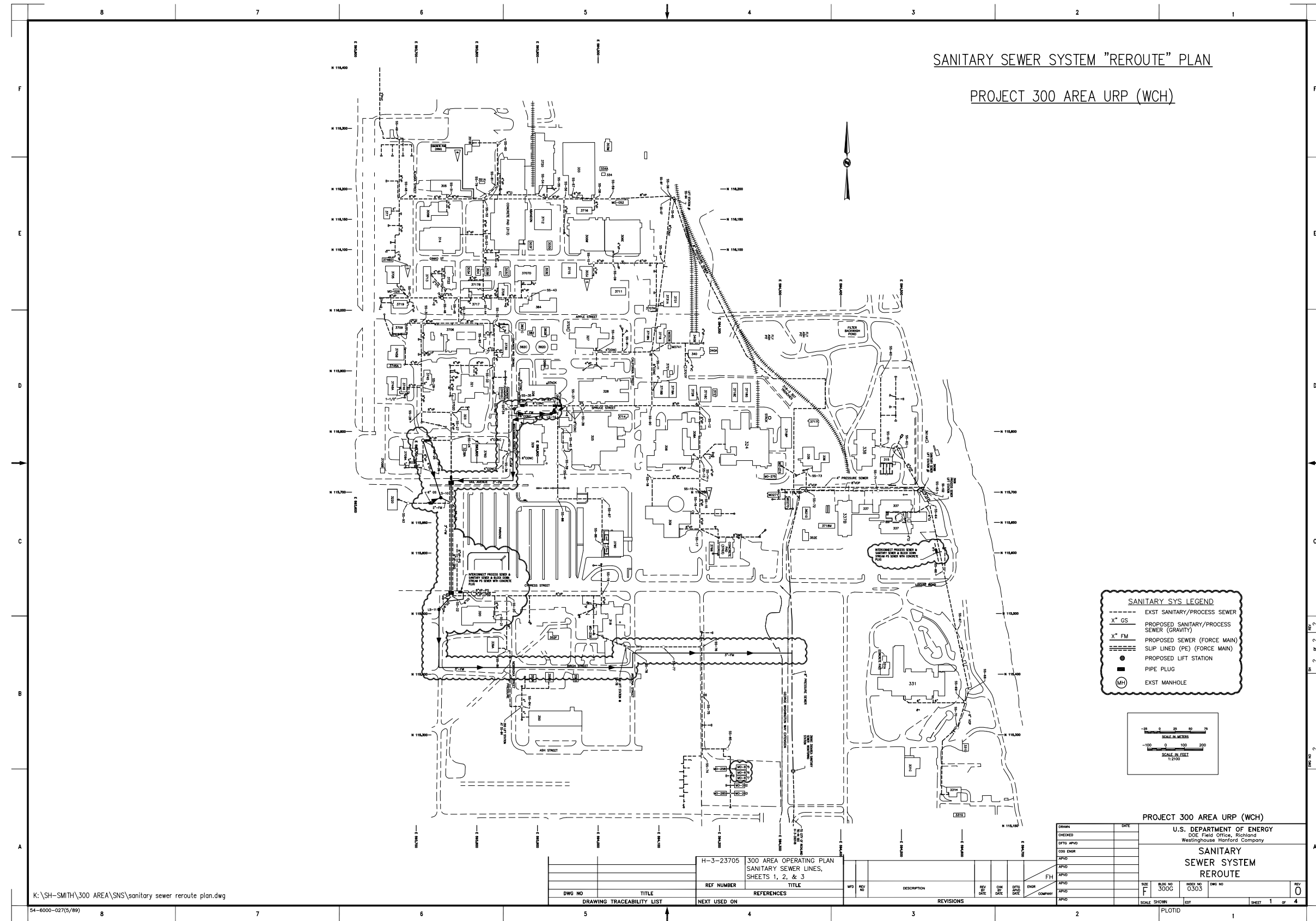
	Name (print)	Signature	Date
Estimator	Bruce Wilcox	_____	_____
Estimating Manager	Doug Ahmer	_____	_____
Task Manager	Don McBride	_____	_____
Project Controls Lead	_____	_____	_____





**APPENDIX H**  
**300 AREA SANITARY SEWER CONCEPTUAL DESIGN**





**APPENDIX I**

**300 AREA RETENTION PROCESS SEWER CONCEPTUAL DESIGN**



Conceptual Design Package  
For  
300 Area Retention Process Sewer Reroute  
and  
Process Sewer Tie-ins

Revision 1

## 300 Area Retention Process Sewer (RPS) Reroute

### 1.0 INTRODUCTION

The 300 Area retention process sewer (RPS) stream for buildings 325, 326, and 329 currently flows to the 307 basins and then to TEDF. Since TEDF is scheduled for deactivation before the RPS system is deactivated, an alternate means of managing the RPS effluents from the 325, 326, and 329 buildings is required. In addition, it was proposed that the Process Sewer streams be tied into the RPS stream for the 326 and 329 buildings. This was based on an assumption that the PS stream could not be introduced into the sanitary sewer (SS) system.

### 2.0 SCOPE

#### 2.1 RPS Disposition

This conceptual design provides, layouts, general arrangements, and calculations to support the rerouting of the current RPS stream to a holding tank system. The holding tank system has provision for sampling of the RPS fluids prior to routing to the sanitary sewer (SS-83). A load-out station is also provided to manage alternate disposal of contaminated fluids. A similar holding tank system is located at the Environmental Molecular Sciences Laboratory (EMSL). This system was directly used to model the 300 area holding tank system.

#### 2.2 Process Sewer Tie-In

This conceptual design also includes the necessary modifications to tie the PS streams into the RPS streams within the 326 and 329 buildings.

#### 2.3 Stormwater Isolation

There is currently, one catch basin located on the east side of the 329 building that is tied into the RPS system. The RPS holding tanks will not be large enough to manage stormwater as well as RPS streams. In addition, the City of Richland has stipulated that it is not acceptable to route stormwater into the SS system. The tie-in must therefore, be isolated.

### 3.0 SIGNIFICANT DESIGN CRITERIA

#### 3.1 Criteria

Criteria for the RPS system reroute and PS tie-ins have been established and are as follows.

- The RPS collection system shall have the capability to transfer wastewater to a tanker truck for wastewater which does not comply with the treatment facility's acceptance criteria.
- The RPS collection system provide sufficient (~1 week per tank) storage capacity to allow operation in the following mode:
  - One active tank / basin filling
  - One full tank / basin awaiting sampling and analysis
  - One additional tank / basin to hold off spec wastewaters requiring load-out by tanker truck.
  - One standby tank / basin
- Non-radiological facility wastewater discharges such as boiler blow down or roof / parking lot runoff should be segregated from the RPS collection system.

### 3.2 Codes and Standards

- Uniform Plumbing Code
- City of Richland Standard Specification Section 7
- NFPA 70 – National Electrical Code
- NFPA 820 – Standard for Fire Protection in Wastewater Treatment and Collection Facilities
- City of Richland Municipal Code, Richland Pretreatment Act – Chapter 17.30

## 4.0 FUNCTIONAL OBJECTIVES

### 4.1 Effluent Flows

Effluent flow rates from the buildings are listed below. While there are efforts underway to reduce flows, these efforts are not yet complete. It is therefore necessary at this stage of the design to account for the known flows as listed.

- 325 RPS – 4 gal/min
- 326/329 RPS – 5 gal/day
- 326 PS – 100 gal/day
- 329 PS – 44 gal/day

### 4.2 Tank Load-Out Facility

The tank load out facility must accommodate a tanker sized vehicle. During load-out activities, the vehicle must be located on a concrete pad that provides spill containment and routing to a sump that pumps spillage back to one of the holding tanks. The tanks are to be located on a pad that provides spill containment for a minimum of 10% of the total tank volume, or the volume of the largest tank, whichever is larger.



## 5.0 CONCEPTUAL LAYOUTS AND GENERAL ARRANGEMENTS

Figures, 1 through 7 describe the conceptual layouts and general arrangements.

The overall concept of the 300 Area Retention Process Sewer system reroute is shown in Figure 1. The rerouted system configuration consists of 3 primary activities.

### 1. Lift Station

All retention process sewer lines between the 325, 326, and 329 buildings currently flow to the existing RPS-3 manhole, and then through an existing 8" clay pipe to the existing 307 basins. The 8" line is to be capped off, and a new lift station is to be installed in the RPS-3 manhole as shown in Figure 2. A new 1" PVC discharge line is to be installed in the RPS-3 manhole from the new dual sump pumps to feed the RPS Load-Out Station. A new valve box is installed over the discharge line to provide access to check valves and isolation valves in the new discharge line.

### 2. RPS Load-Out Station

The RPS Load-Out Station is described in Figures 3, 4, and 5. This new station will consist of four, 4300 gallon tanks situated on a 30' x 30' pad with appropriate spill containment. As required per section 1.3, each tank serves a specific purpose. Tank EFT-1 will be the active tank, continually receiving effluent from RPS-3. When EFT-1 is full, it is emptied to EFT-2 to await sampling and analysis. Should the analysis show that the contents of EFT-2 require load out, it will be transferred to EFT-3. Otherwise, tank EFT-2 is gravity drained through a 2" PVC line to the sanitary sewer at the SS-38 manhole. The control system will time the drain to SS-38 during a time of low SS flow, such as 0100 hours. Tank EFT-4 is will be a stand-by tank.

A new asphalt drive and concrete pad with spill containment are also provided for load-out activities. The truck will receive the EFT-3 contents while parked on the concrete pad. Both pads will be covered to prevent stormwater from accumulating in the sump. All spillage from at the truck pad or tank pad will be routed to the central sump and returned to tank EFT-1.

Adequate valving and piping will be provided such that any tank can serve any of the functions described.

### 3. Process Sewer to RPS Tie-ins

The process sewer (PS) streams at the 326 and 329 buildings will be tied into the RPS stream prior to exiting the buildings.

#### a. 329 PS Tie-in

The 329 tie-in is to be located on the north wall of the service tunnel and is described in Figure 5. The 3-inch carbon steel PS lines will be cut, capped, and converted PVC lines as they tie-in to the 4-inch stainless steel RPS line.

b. 326 PS Tie-in

The PS stream will be collected in a new sump, located in room 21-A, in the basement. The configuration is shown in Figures 6 & 7. The existing 8" PS line exiting the building in that room will be capped. The sump will collect the discharge from the 8" line and several additional existing lines in located in the room. A new sump pump will send the contents of the 50 gallon sump through a 1" PVC line to room 24-A1, where the RPS stream is collected and routed to the existing RPS-2 manhole just outside the building. The new 1" PVC line ties into an existing 2" carbon steel line in room 24-A1, just above the ceiling tiles.

Secondarily, there is one stormwater catch basin currently tied into the RPS stream at the South East corner of the 329 building. This 4-inch PVC line is to be cut and capped as shown in Figure 1 to isolate stormwater flow to the RPS Load-Out Tanks.

## 6.0 FLOW DIAGRAMS

Process and Instrumentation Diagrams (P&IDs) were available from the EMSL design. Figures 4, and 5, were developed directly from those drawings.

## 7.0 SIZING AND PROCESS CALCULATIONS

Calculation document 0300X-CA-M0001 was developed for the RPS reroute and contains all pertinent conceptual level calculations.

## 8.0 PRELIMINARY DESIGN PARAMETERS

The following parameters will need to be addressed at preliminary design.

### 8.1 Effluent Flow Rates

As previously mentioned, a PNNL effort is underway to reduce flows from the 325, 326, and 329 buildings. Flow criteria will need to be finalized based on those efforts.

### 8.2 Tanker Truck Configuration

The conceptual design does not account for any specific requirements that the tanker truck may have for load out. A specific truck will need to be identified from which the load out facility design can be finalized.

### 8.3 Site Characterization

Building 328 currently exists at the proposed site for the tank load out facility. If building 328 has been remediated prior to preliminary design, then the site will need to be characterized for the spill containment pad, load-out pad, and road design.

### 8.4 Component Sizing

Components were sized and selected as follows.

#### Tank Drain to SS-38:

The drain line from the tanks to the SS-38 manhole is to be a 2-inch schedule 40 PVC pipe. PVC pipe was selected for all piping in the RPS reroute, since some of the existing RPS lines have already been converted to PVC.

#### RPS-3 Lift Station:

The RPS-3 Lift station discharge line is to be a 1-inch schedule 40 PVC pipe. The pump for the lift station is to be an Aquatic ECO-Systems Inc., Model SP750 (or equivalent) high-head submersible pump, operating at 20gpm and 30ft head.

#### 326 Process Sewer Sump Dimensions:

The new sump for the 326 process sewer is to be 2 foot square, by 3 foot deep. The width dimension is restricted; however the remaining dimensions can be increased as needed. The volume of the sump is sized to handle 50 gallons of the 100 gal/day PS flow.

#### 326 Process Sewer Sump Pump and discharge line:

This sump pump is sized to provide 18 gpm at 36 feet head through a 1-inch schedule 40 PVC pipe.

#### Tank Pad Spill Containment Curb:

The spill containment curb surrounding the retention tank pad is required to be 3" high, to contain 10% of the total volume of the 4 tanks as required per WCH-56.

#### Load-Out Tanks:

The load out tanks were sized to 4300 gallons based on known flows to TEDF from the 300 Area RPS system. It so happens that the tanks used at the EMSL design were the exact sized required based on the known flows. As a result, the complete EMSL design was adapted to the 300 Area RPS Load Out system. The material of the tanks was selected to be FRP due to the universal compatibility with potential constituents within the RPS stream.

## 9.0 MATERIAL SELECTION, PROCUREMENTS SPECIFICATIONS

Procurements specifications will need to be written for the following components.

1. Tanks. The four tanks have been conceptualized as 4300 gallon tanks fabricated from fiberglass reinforced plastic (FRP). The tanks are free standing and elevated to allow full drainage from a bottom center fitting.
2. Pumps. Three sump pumps are needed; two for the RPS-3 lift station and one for the new 326 building PS sump. The pumps selected in the analysis are the Aquatic Eco-Systems, Inc, High Head submersible pump, model SP750, but any submersible pump providing equivalent flow and head characteristics is acceptable. The load out pumps were not sized or selected since the characteristics of the receiver truck were not known. The pumps shown were simply copied from the EMSL design, which featured tanks that were located in a below-grade vault. It is quite possible that the final design of the load out facility could eliminate the need for the pumps entirely.
3. "Rain Hat." It is suggested that the carport-like structure over the tank load out facility be specified and procured from a vendor specializing in such structures.

## 10.0 ENVIRONMENTAL IMPACT

There is no expected environmental impact. The RPS and PS effluents from buildings 325, 326, and 329 are contained in their entirety and sampled prior to release or load-out. All new installations of piping and facilities are being located at pre-existing facility or road locations. No significant radiological or chemical hazards are foreseen for construction or isolation activities.

## 11.0 BASELINE COST ESTIMATE

The cost estimate is being performed by WCH personnel.

## 12.0 LONG LEAD PROCUREMENT ITEMS

The FRP tanks are expected to be long lead items requiring approximately 3 weeks for vendor drawings and 16 weeks to fabricate.

#### 13.0 IDENTIFICATION OF POTENTIAL SAFETY HAZARDS AND PROVISIONS FOR HAZARD CONTROLS

No safety hazards other than occupational during construction are foreseen.

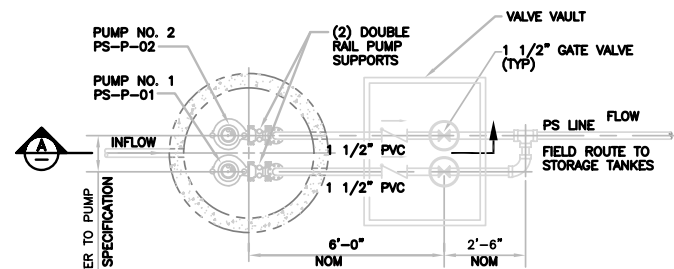
#### 14.0 ESTIMATED PORCUREMENT/CONSTRUCTION SCHEDULE.

While the tanks are long-lead items, they are not required at the start of construction. Delivery of the tanks should coincide with construction completion of the pad on which they are installed. Procurement/construction duration is estimated to 6 months. This does not include final design, which precedes the construction start date, but could end during the first phases of construction.

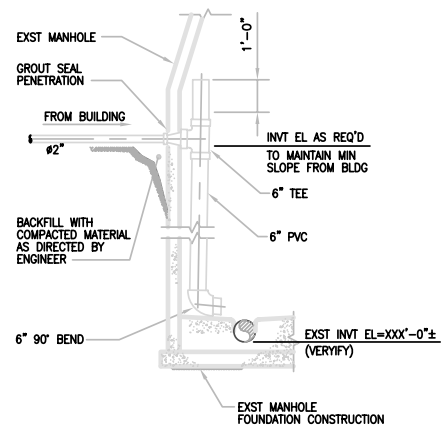


8 7 6 5 4 3 2 1

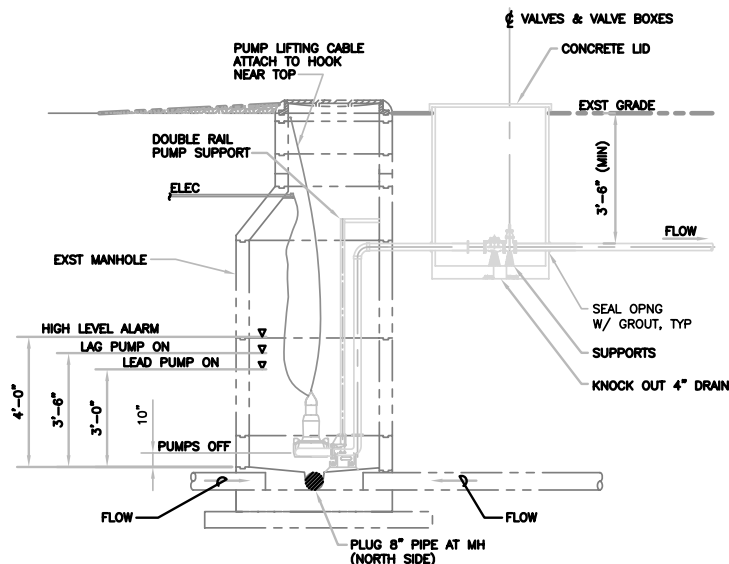
F  
E  
D  
C  
B  
A



3 MANHOLE LIFT STATION  
H-3-XXXXXX SCALE: 1/2"=1'-0"



2 MANHOLE CONNECTION SS-83  
H-3-XXXXXX SCALE: NONE

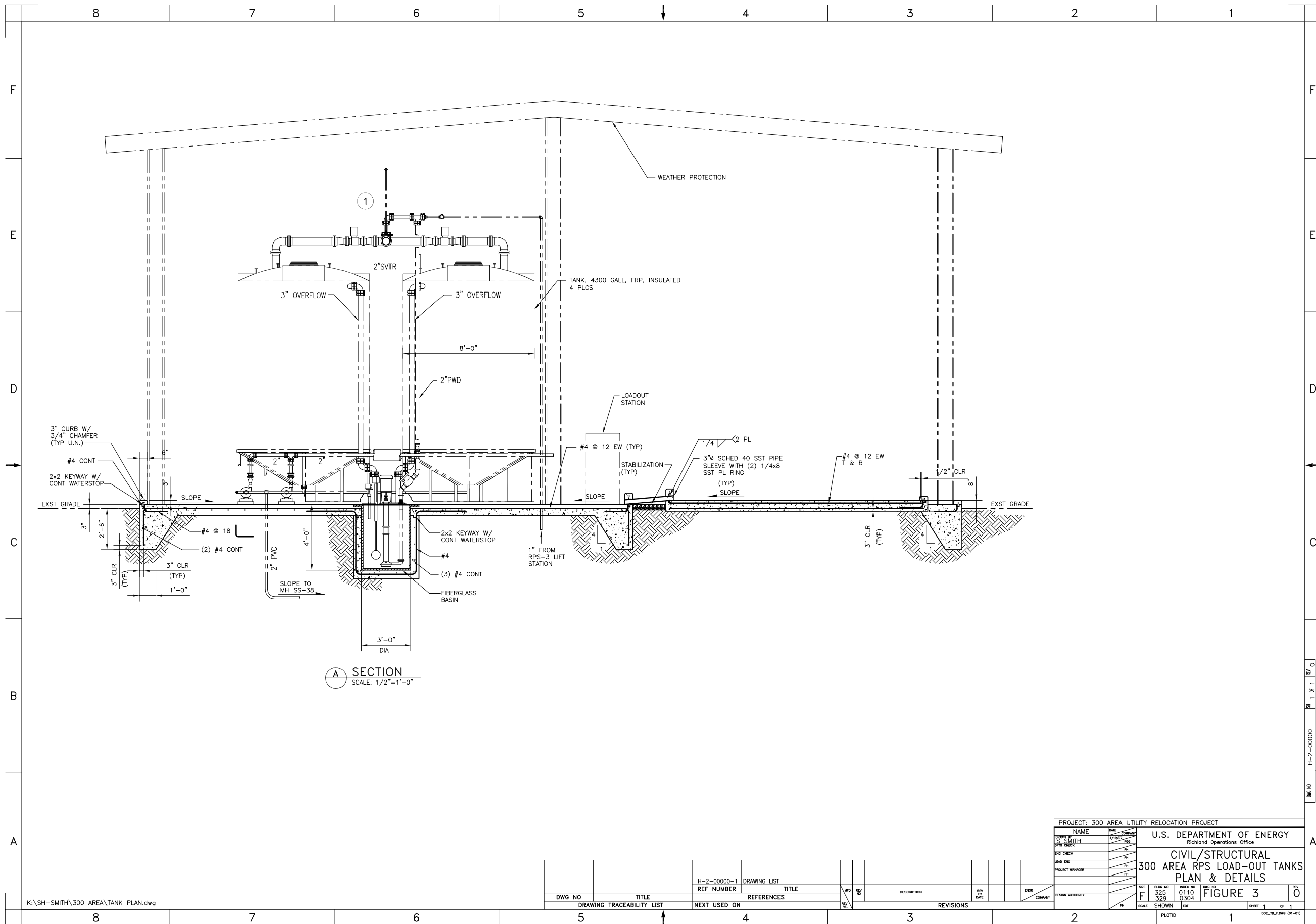


A SECTION  
SCALE: 1/2"=1'-0"

PROJECT: 300 AREA UTILITY RELOCATION PROJECT	
NAME	DATE
U.S. DEPARTMENT OF ENERGY	
Richland Operations Office	
LIFT STATION 300 AREA RPS REROUTE REROUTE	
FIGURE 2	0
NO. 325	NO. 0110
NO. 329	NO. 0304
SCALE	SHOWN
DATE	PLOTTED
SHEET 1	OF 1
DATE PLOTTED: 08/11/07	

DWG NO	TITLE	REF NUMBER	REFERENCES	DESCRIPTION	REV DATE	BY	CHK	APP	COMPANY	DESIGN AUTHORITY
H-2-00000-1	DRAWING LIST									
DRAWING TRACEABILITY LIST										
NEXT USED ON										
REVISIONS										

C:\Documents and Settings\huber\Local Settings\Temporary Internet Files\OLK12\FIGURE 2-1.dwg

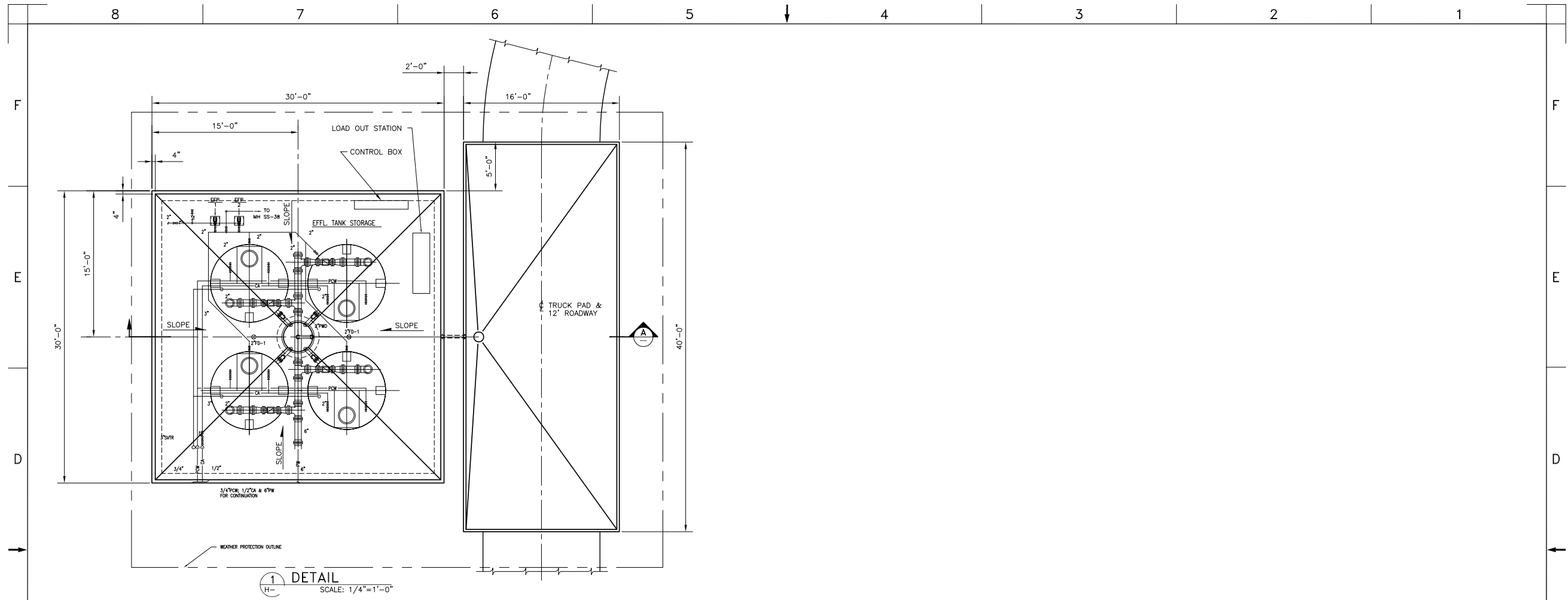


**A** SECTION  
SCALE: 1/2"=1'-0"

PROJECT: 300 AREA UTILITY RELOCATION PROJECT			
DESIGNER	NAME	DATE	COMPANY
FILE CHECK	S. SMITH	4/18/07	URS
ENG CHECK			
LEAD ENG			
PROJECT MANAGER			
U.S. DEPARTMENT OF ENERGY Richland Operations Office		A	
CIVIL/STRUCTURAL 300 AREA RPS LOAD-OUT TANKS PLAN & DETAILS			
SIZE	BLDG NO	INDEX NO	DWG NO
F	325	0110	0304
SCALE	329	0304	FIGURE 3
REV	0		
PLOTTED		SHEET 1 OF 1	
DATE: 7/2/07		DWG: 300-0304	

DWG NO	TITLE	REF NUMBER	TITLE	DESCRIPTION	REV DATE	COMPANY
H-2-00000-1	DRAWING LIST					
DRAWING TRACEABILITY LIST						
NEXT USED ON						
REFERENCES						
REVISIONS						

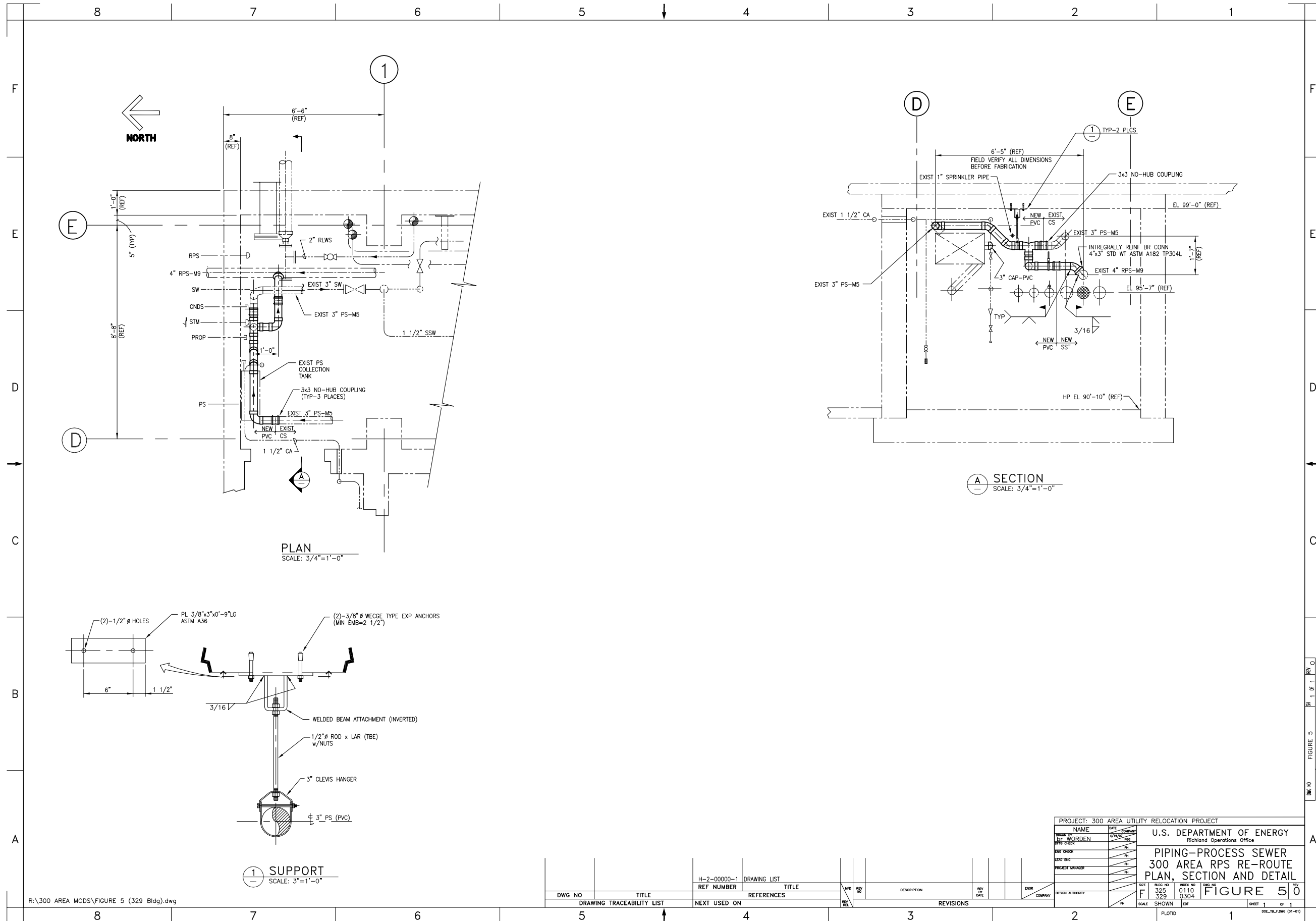




K:\SH-SMITH\300 AREA\TANK PLAN.dwg

DWG NO	TITLE	REF NUMBER	TITLE	DESCRIPTION	REV DATE	ENGR	COMPANY
H-2-00000-1	DRAWING LIST						
DRAWING TRACEABILITY LIST		REFERENCES		REVISIONS			

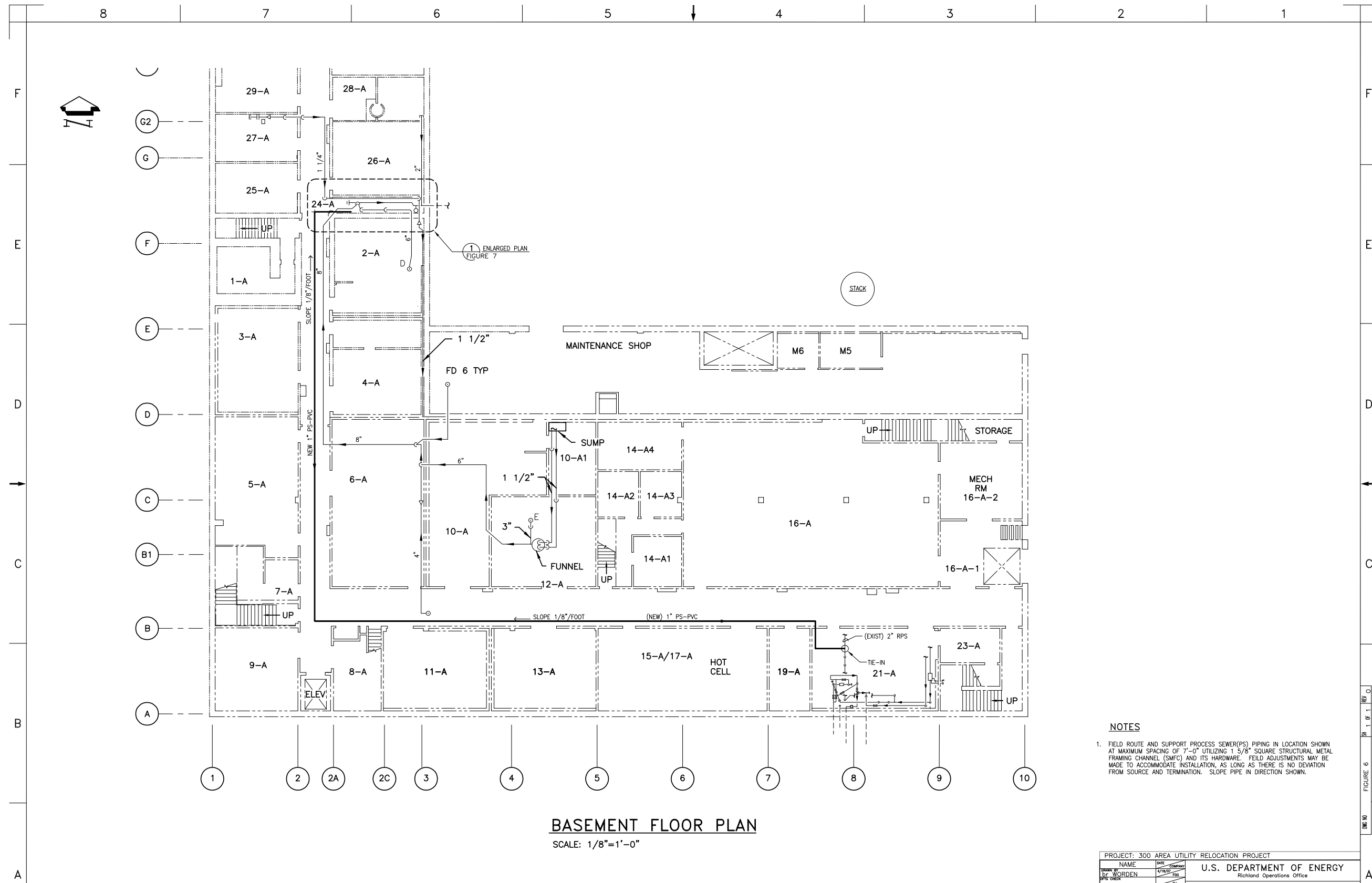
PROJECT: 300 AREA UTILITY RELOCATION PROJECT			
NAME	DATE	U.S. DEPARTMENT OF ENERGY	
S. SMITH	4/18/07	Richland Operations Office	
DESIGNER	CHK	CIVIL/STRUCTURAL	
PIPE CHECK	FX	300 AREA RPS LOAD-OUT TANKS	
ENG CHECK	FX	PLAN & DETAILS	
LEAD ENG	FX	FIGURE 4	
PROJECT MANAGER	FX	SIZE	REV
		F	0
		SCALE	DATE
		1/4" = 1'-0"	07-01-07
		SHEET 1 OF 1	



R:\300 AREA MODS\FIGURE 5 (329 Bldg).dwg

PROJECT: 300 AREA UTILITY RELOCATION PROJECT		U.S. DEPARTMENT OF ENERGY Richland Operations Office	
NAME	DATE	NAME	DATE
DRWN BY BY WORDEN		DATE	
PIPE CHECK		DATE	
INT CHECK		DATE	
LEAD ENG		DATE	
PROJECT MANAGER		DATE	
DESIGN AUTHORITY		DATE	
SIZE	BLDG NO	INDEX NO	FIG NO
F	325	0110	FIGURE 50
	329	0304	
SCALE	SHOWN	EDP	SHEET 1 OF 1
			DATE PLOTTED: 01-11-01

DWG NO	TITLE	REF NUMBER	TITLE	W/P	REV	DATE	DESCRIPTION	REV DATE	ENGR	COMPANY
H-2-00000-1	DRAWING LIST									
DRAWING TRACEABILITY LIST										
NEXT USED ON										
REFERENCES										
REVISIONS										



**BASEMENT FLOOR PLAN**

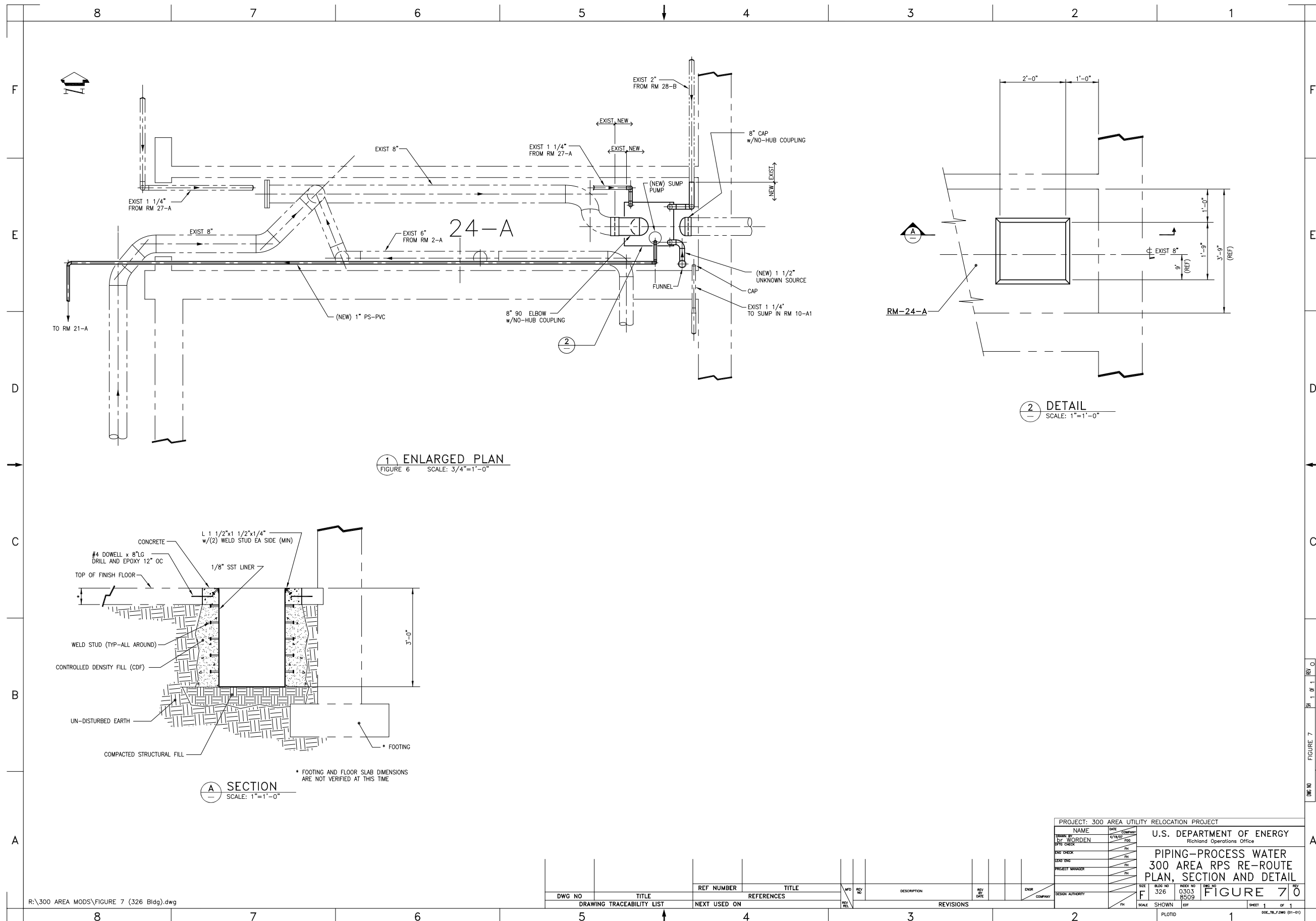
SCALE: 1/8"=1'-0"

- NOTES**
1. FIELD ROUTE AND SUPPORT PROCESS SEWER (PS) PIPING IN LOCATION SHOWN AT MAXIMUM SPACING OF 7'-0" UTILIZING 1 5/8" SQUARE STRUCTURAL METAL FRAMING CHANNEL (SMFC) AND ITS HARDWARE. FIELD ADJUSTMENTS MAY BE MADE TO ACCOMMODATE INSTALLATION, AS LONG AS THERE IS NO DEVIATION FROM SOURCE AND TERMINATION. SLOPE PIPE IN DIRECTION SHOWN.

R:\300 AREA MODS\FIGURE 6 (326 Bldg).dwg

DWG NO	TITLE	REF NUMBER	TITLE	DESCRIPTION	REV DATE	ENGR	COMPANY
	DRAWING TRACEABILITY LIST		REFERENCES				

PROJECT: 300 AREA UTILITY RELOCATION PROJECT			
NAME	DATE	COMPANY	
DRWN BY BY WORDEN			
PIPE CHECK			
ENR CHECK			
LEAD ENR			
PROJECT MANAGER			
U.S. DEPARTMENT OF ENERGY Richland Operations Office			
PIPING-PROCESS SEWER 300 AREA RPS RE-ROUTE PLAN			
SIZE	BLDG NO	INDEX NO	DWG NO
F	326	0303	8509
SCALE	SHOWN	EDF	FIGURE 60
			SHEET 1 OF 1
			DATE: 7/2/07 (31-01)



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**Washington  
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 Project: 300 Area Utilities Job No. \_\_\_\_\_ Checked: J.Winters Date: 6-11-07  
 Subject: Retention Process Sewer Reroute Sheet 1 of 23

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## CALCULATION SHEET

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### 1.0 PURPOSE, CRITERIA, AND DESIGN INPUTS

#### 1.1 Purpose

This calculation supports conceptual design related to reroute of the Retention Process Sewer system in the 300 area. It specifically addresses the sizing of the tank drain to sanitary sewer SS-38, as well as the lift station being proposed for installation into RPS-3 manhole. Also addressed is sump and sump pump sizing in the 326 building.

#### 1.2 Scope

This calculation is performed in several parts. Part 1 determines the drain line size between the tanks and the SS-38 manhole. Part 2 determines pumping requirements for the RPS-3 lift station and discharge line sizing. Part 3 sizes the new sump proposed for the building 326 process sewer. Part 4 sizes the new sump pump to be installed in the new 326 sump. Part 5 sizes the load-out pumps.

#### 1.3 Design Criteria

At this stage of the conceptual design, very little design criteria has been established. However, a draft criteria document has been developed and the applicable criteria are listed below.

1.3.1 The RPS collection system provide sufficient (~1 week per tank) storage capacity.

1.3.2 The following flows must be managed by the system:

325 RPS:  $Q_{325rps} := 4 \frac{\text{gal}}{\text{min}}$

326/329 RPS:  $Q_{329326RPS} := 5 \frac{\text{gal}}{\text{day}}$

326 PS:  $Q_{326PS} := 100 \frac{\text{gal}}{\text{day}}$

329 PS:  $Q_{329PS} := 44 \frac{\text{gal}}{\text{day}}$

## CALCULATION SHEET

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### 1.4 Design Inputs

See Section 1.3.

## 2.0 APPLICABLE CODES, STANDARDS, REGULATORY REQUIREMENTS

### 2.1 Applicable Code

2.1.1 Uniform Plumbing Code 2003 Edition

## 3.0 CALCULATION METHODOLOGY

The methodology used for this calculation is based on those presented in Crane Technical Paper 410 (Ref. 5.2). Mathcad 2001 Professional was used. Results were verified using standard hand calculations.

## 4.0 ASSUMPTIONS

### 4.1 Assumptions With Technical Justification

4.1.1 Roughness of PVC pipe is .000005 ft which is within the range listed in MERM (Ref. 5.5)

4.1.2 Add 10% to fitting and pipe friction loss for conservatism.

4.1.3 Pipelines will be sized for fluid velocities of 2-10 ft/sec which is industry standard.

4.1.4 Fluid properties are equivalent to water at STP.

### 4.2 Unverified Assumptions

The following assumptions are unverified due to the conceptual nature of the design.

4.2.1 Lengths of straight pipe and exact configuration of fittings is approximate to that accounted for in the figures and calculation.

4.2.2 Required tank capacity is 4300 gallons based on recent flow readings.

## CALCULATION SHEET

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4.2.3 Grade level in the area of RPS-3 is 400 feet.

4.2.4 Estimated pump efficiency at max flow is 60%.

4.2.5 Liquid is free of solids.

### 5.0 REFERENCES

5.1 "Functional Requirements and Design Criteria For 300 Area Utility Services,"  
0300X-DC-G0001, Rev 0, Washington Closure Hanford, April 2007.

5.2 Technical Paper No. 410, 1982, *Flow of Fluids Through Valves, Fittings, and Pipe*, Crane  
CO., New York, New York.

5.3 Swamee, P.K.; Jain, A.K. (1976). "Explicit equations for pipe-flow problems". Journal of the  
Hydraulics Division, ASCE 102 (5): 657–664. [Swamee & Jain Equation]

5.4 ASME B31.3, 1999 Edition With 2000 Addenda, *Process Piping*, ASME Code for Pressure  
Piping, B31 An American National Standard, , American Society of Mechanical Engineers, New  
York, NY.

5.5 Mechanical Engineering Reference Manual, 8th Ed., 1990, Michael R. Lindeburg, P.E.,  
Professional Publications, Belmont, California.

5.6 Harrington Industrial Plastics, 9th Edition, Chino, California

5.7 General Design Criterial for River Corridor Closure Contract, WCH-56 Rev. 0, Washington  
Closure Hanford, June 2006



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**6.0 CALCULATIONS**

**6.1 Input Data**

**6.1.1 Dimension Definitions and Unit Conversion**

$$\text{fpm} := \frac{\text{ft}}{\text{min}} \quad \text{gpm} := \frac{\text{gal}}{\text{min}} \quad \text{psig} := \text{psi} \quad \text{psia} := \text{psi} \quad \text{psi} := \frac{\text{ft}}{2.31} \quad \text{hp} := \frac{\text{lb}\cdot\text{ft}}{550\cdot\text{sec}}$$

SG := 1                      Specific gravity of water

**6.1.2 Physical Properties**

$\rho := 62.371 \cdot \frac{\text{lb}}{\text{ft}^3}$                       Density of water at 60 degrees F, Crane (Ref. 5.2), pg. A-6.

$\epsilon := 0.000005 \cdot \text{ft}$                       Relative roughness of clean PVC pipe  
Crane (Ref. 5.2), pg. A-23, conservative.

$P_{\text{atm}} := 14.7 \cdot \text{psi}$                       Atmospheric pressure at Hanford

**6.1.3 Design Flows**

There are no design flows other than those listed in Section 1.3, Criteria

**6.1.4 Pipe Data**

$D_{10} := 1.049\text{in}$                       I.D. of 1-inch nominal Sched 40 PVC Pipe (Ref 5.6)

$D_{125} := 1.38\text{in}$                       I.D. of 1.25-inch nominal Sched 40 PVC Pipe (Ref 5.6)

$D_{150} := 1.61\text{in}$                       I.D. of 1.5-inch nominal Sched 40 PVC Pipe (Ref 5.6)

$D_{20} := 2.067\text{in}$                       I.D. of 2-inch nominal Sched 40 PVC Pipe (Ref 5.6)

## CALCULATION SHEET

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### 6.1.5 Design Configuration

Due to the conceptual status of the design, the configuration is as described in the figures included in this calculation.

### 6.2 Calculation

#### 6.2.1 Tank Drain Sizing

Objective: Determine the discharge flow rate from draining one tank to the sanitary sewer system. The configuration is shown in Figure 1.

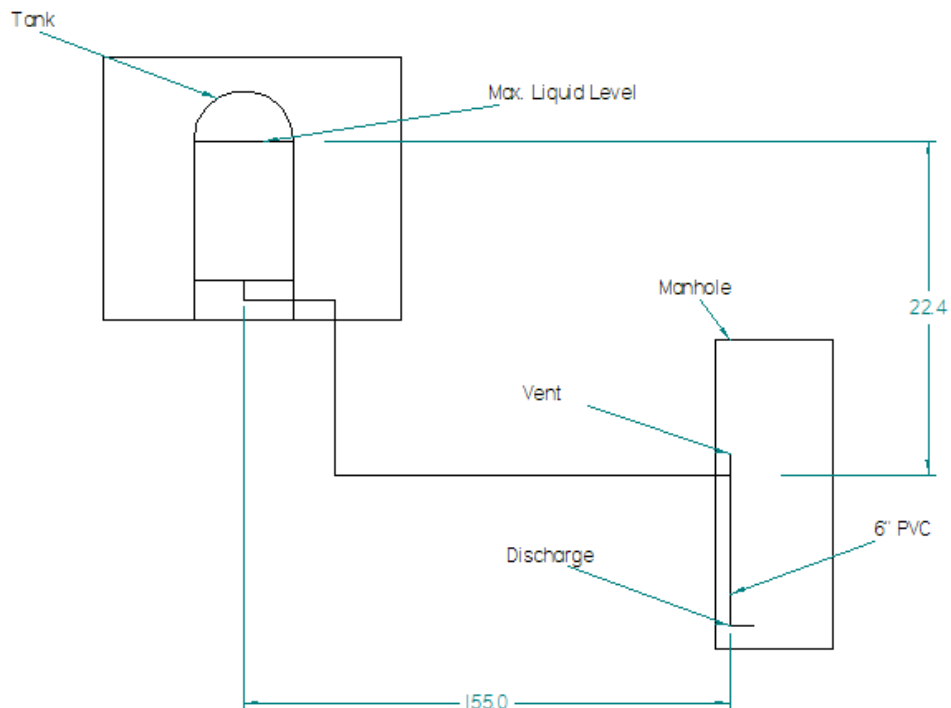


Figure 1, Tank Discharge to Manhole

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Specific Inputs:

$$g_c := 32.2 \frac{\text{ft}}{\text{sec}^2}$$

$$D_{20} := 2.067 \text{in}$$

$$H_s := 22.4 \text{ft} \quad \text{Static head as shown in Figure 1}$$

$$L_{sp} := 170 \text{ft} \quad \text{Length of Straight Pipe, adding 15 feet to that shown in Figure 1}$$

$$\nu := .00001059 \frac{\text{ft}^2}{\text{sec}} \quad \text{Kinematic viscosity of water at 70F}$$

$$N_{els} := 7 \quad \text{Number of 90deg elbows, assumed}$$

$$\epsilon := .000005 \cdot \text{ft} \quad \text{for PVC pipe}$$

Determine Fitting Losses

$$f := .015 \quad \text{Assumed friction factor - to be finalized later}$$

$$K_{\text{pipe}} := f \cdot \frac{L_{sp}}{D_{20}} \quad K_{\text{pipe}} = 14.804$$

$$K_{\text{pipes}} := K_{\text{pipe}} \cdot \text{ft}$$

$$K_{\text{els}} := 30 \cdot f \cdot N_{\text{els}} \quad K_{\text{els}} = 3.15$$

$$K_{\text{elbows}} := K_{\text{els}} \cdot \text{ft}$$

$$K_{\text{entrance}} := .5 \text{ft} \quad (\text{Ref. 5.2 A-29})$$

$$K_v := 8 \text{ft} \quad (\text{Ref. 5.2 A-27, gate valve})$$

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$$K_{\text{total}} := K_{\text{pipes}} + K_{\text{elbows}} + K_{\text{entrance}} + K_v$$

$$K_{\text{total}} = 26.454 \text{ ft}$$

Calculate Flow Velocity

Ref. 5.2 provides an equation for flow rate from a gravity discharge. The equation involves, as with many CFF equations, an undefined conversion factor. In order for MathCAD units to work out, a dummy dimension has been assigned to the conversion factor C, numerically equivalent to 19.65:

$$C := 19.65 \frac{\text{gal}}{\text{in}^2 \cdot \text{min}}$$

From Ref 5.2:

$$Q := C \cdot (D_{20})^2 \cdot \sqrt{\frac{H_s}{K_{\text{total}}}} \quad Q = 77.254 \cdot \frac{\text{gal}}{\text{min}}$$

The flow velocity for this pipe diameter is:

$$V := \frac{Q}{\frac{\pi}{4} \cdot D_{20}^2} \quad V = 7.386 \frac{\text{ft}}{\text{s}}$$

The Reynold's number at this velocity:

$$N_{\text{re}} := \frac{D_{20} \cdot V}{\nu} \quad N_{\text{re}} = 1.201 \times 10^5$$

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From the Swamee-Jain Equation, calculate a new friction factor:

$$f := \frac{1.325}{\ln\left(\frac{\epsilon}{3.7D_{20}} + \frac{5.74}{N_{re}^{.9}}\right)^2} \quad f = 0.017$$

Use this new f value to re-calculate losses

$$K_{\text{pipe}} := f \cdot \frac{L_{\text{sp}}}{D_{20}} \quad K_{\text{pipe}} = 17.16 \quad K_{\text{pipes}} := K_{\text{pipe}} \cdot \text{ft}$$

$$K_{\text{els}} := 30 \cdot f \cdot N_{\text{els}} \quad K_{\text{els}} = 3.651 \quad K_{\text{elbows}} := K_{\text{els}} \cdot \text{ft}$$

$$K_{\text{total}} := K_{\text{pipes}} + K_{\text{elbows}} + K_{\text{entrance}} + K_v \quad K_{\text{total}} = 29.311 \text{ ft}$$

$$Q := C \cdot D_{20}^2 \cdot \sqrt{\frac{H_s}{K_{\text{total}}}} \quad Q = 73.392 \cdot \frac{\text{gal}}{\text{min}}$$

$$V := \frac{Q}{\frac{\pi}{4} \cdot D_{20}^2} \quad V = 7.017 \frac{\text{ft}}{\text{s}}$$

Since the new flow rate and velocity are not significantly different from the original calculated values, the original assumed friction factor was adequate.

Conclusion:

The selected line size is adequate.

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**6.2.2 RPS-3 Lift Station Discharge**

Determine discharge line size and pump requirements for the RPS-3 lift station. The configuration is shown in Figure 2.

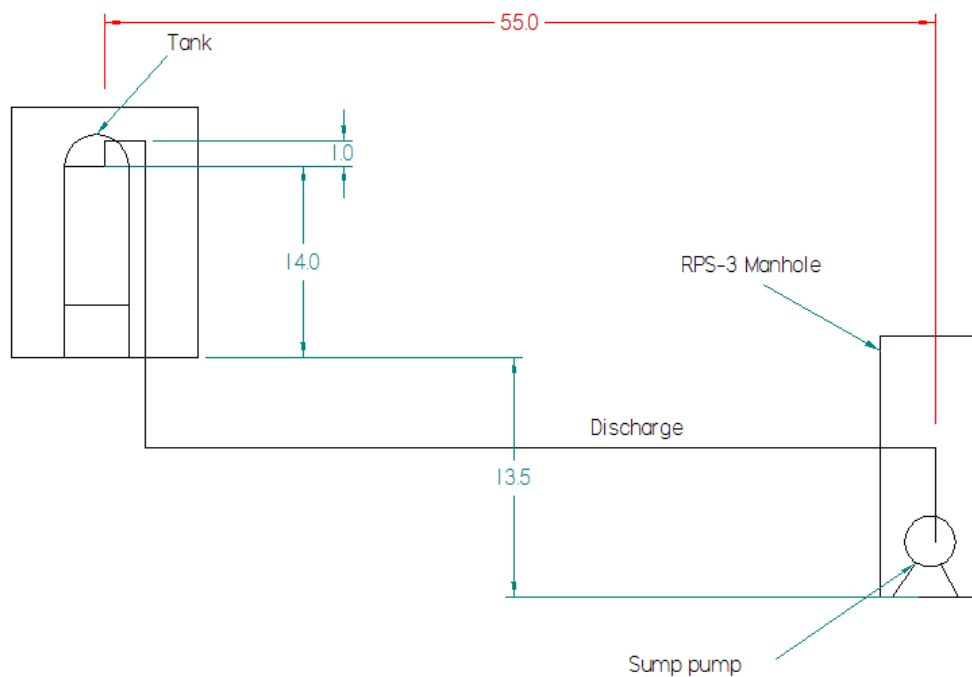


Figure 2, Lift Station Discharge Piping

Determine minimum flow required of the pump based on the maximum inflows to manhole RPS-3.

The total maximum inflow to the manhole is determined as follows:

Re-iterating flows from the criteria 1.3.

$$Q_{325rps} := 4 \frac{\text{gal}}{\text{min}}$$

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$$Q_{329326RPS} := 5 \frac{\text{gal}}{\text{day}}$$

$$Q_{326PS} := 100 \frac{\text{gal}}{\text{day}}$$

$$Q_{329PS} := 44 \frac{\text{gal}}{\text{day}}$$

$$Q_{\text{totalrps3}} := Q_{325rps} + Q_{329326RPS} + Q_{326PS} + Q_{329PS}$$

$$Q_{\text{totalrps3}} = 4.103 \frac{\text{gal}}{\text{min}}$$

Rough dimensions of the manhole:

$$D_{\text{mh}} := 4\text{ft}$$

$$H_{\text{mh}} := 10\text{ft}$$

Capacity of the manhole:

$$V_{\text{mh}} := \frac{\pi}{4} D_{\text{mh}}^2 \cdot H_{\text{mh}}$$

$$V_{\text{mh}} = 940.03 \cdot \text{gal}$$

Time to fill manhole:

$$T_{\text{mh}} := \frac{V_{\text{mh}}}{Q_{\text{totalrps3}}} \quad T_{\text{mh}} = 3.818 \cdot \text{hr}$$

Assuming worst case conditions, where sump floats are inoperable and the manhole must be emptied faster than it is filled, select a pump with minimum flow rate as follows:

$$Q_{\text{sump}} := 5 \text{gpm}$$

**CALCULATION SHEET**

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Sizing the discharge line:

Using the 2-10fps criteria, use Table B-14 from Ref 5.2 to select pipe size options. For a 1" line, the flow velocity ranges from 2-7 fps for 6-20 gpm. For 1 1/2 inch line, 2-10 fps ranges from 15 to 60 gpm. A 1 inch nominal pipe will be selected.

Select a pump:

In order to select a pump, a first estimate of the total dynamic head is needed. This can be estimated by taking the static head and adding a conservative factor of 30% to account for line losses.

$$H_{sh} := 13.5\text{ft} + 14\text{ft} \quad H_{sh} = 27.5 \text{ ft} \quad \text{Static head from Figure 2}$$

$$H_{tdh} := H_{sh} + H_{sh} \cdot .3 \quad H_{tdh} = 35.75 \text{ ft} \quad \text{Total Dynamic Head estimated}$$

The Aquatic Eco-Systems SP750 provides adequate discharge head requirements and is supplied with a 1" nominal threaded connection. The pump curve is shown in Figure 3.



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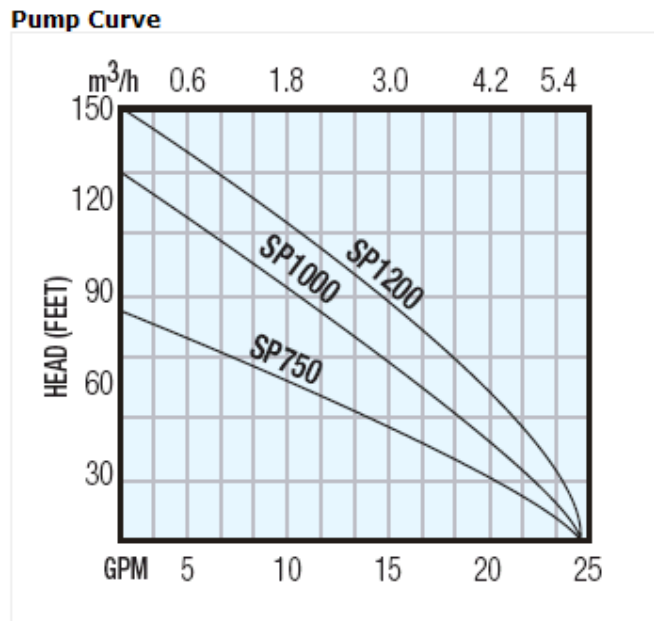


Figure 3, SP750 Pump Curve

From the Figure 3 pump curve for the SP750, the flow rate at the estimated TDH is:

$$Q_{\text{pump}} := 18\text{gpm}$$

A more definitive system analysis can now be determined. From Ref 5.2, the pressure drop per 100 feet of 1" line is:

$$\text{Delta}P_{100} := 1.07\text{psi}$$

Ref. 5.2 Table B-14 by interpolation

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Numbers and equivalent length of fittings. Equivalent lengths are taken from Ref 5.5 Section 3 Appendix J for Screwed Steel pipe. This is expected to be conservative when applied to a PVC pipe system.

$N_{90a} := 7$	Number of 90 degree elbows
$N_{teebr} := 1$	Number of branch flow tees
$N_{gate} := 1$	Number of gate valves
$N_{checkv} := 1$	Number of check valves
$N_{union\_} := 2$	Number of unions
$L_{90} := 5.2\text{ft}$	Equivalent length of a 1-inch 90 degree elbow
$L_{tee} := 6.6\text{ft}$	Equivalent length of a 1-inch tee branch flow.
$L_{valve} := .84\text{ft}$	Equivalent length of a 1-inch gate valve
$L_{dsp} := 80\text{ft}$	Length of straight pipe in the system (conservative)
$L_{checkv} := 7.2\cdot\text{ft}$	Equivalent length of check valve
$L_{union\_} := .29\text{ft}$	Equivalent length of unions
$L_{tot} := N_{90a} \cdot L_{90} + N_{teebr} \cdot L_{tee} + N_{gate} \cdot L_{valve} + N_{checkv} \cdot L_{checkv} \dots$ $+ N_{union\_} \cdot L_{union\_} + L_{dsp}$	
$L_{tot} = 131.62\text{ft}$	Total equivalent length of pipe

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Pressure drop over the total equivalent pipe length

$$P_{\text{drop}} := \frac{L_{\text{tot}}}{100\text{ft}} \cdot \text{DeltaP}_{100} \quad P_{\text{drop}} = 1.408 \cdot \text{psi}$$

$$H_{\text{tdhrs3}} := H_{\text{sh}} + P_{\text{drop}} \cdot 2.31 \frac{\text{ft}}{\text{psi}}$$

$$H_{\text{tdhrs3}} = 30.753 \text{ ft}$$

Total dynamic head

From Figure 3, at the calculated Total Dynamic Head, the pump will output:

$$Q_{\text{pumpRPSLift}} := 20 \text{ gpm}$$

Horsepower required to pump:

The equation for horsepower is taken from Ref. 5.5, Table 4.3. The authors of the reference manual already worked out conversion factors for their equations. The equation is known to be accurate, but since MathCAD checks all units, a dummy conversion factor  $C_1$  was inserted following the 3956 value to make the units of the solution work out.

$$C_1 := \frac{\text{gpm} \cdot \text{ft}}{\text{hp}}$$

From assumption 4.2.4:

$$\eta_p := 0.60$$

$$\text{bhp}_{\text{rps}} := \frac{H_{\text{tdhrs3}} \cdot Q_{\text{pumpRPSLift}}}{3956 \cdot C_1 \cdot \eta_p}$$

$$\text{bhp}_{\text{rps}} = 0.259 \cdot \text{hp}$$

If selecting a pump other than that used for this analysis, choose a 1/3 hp pump to account for electric motor inefficiency.

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Lift Station Cycle Time:

$D_{mh} = 4 \text{ ft}$	Manhole Diameter	
$h_{on} := 3 \text{ ft}$	Pump "ON" Level	
$h_{off} := 10 \text{ in}$	Pump "OFF" Level	
$V_{in} := \frac{\pi}{4} \cdot D_{mh}^2$	Volume of liquid per inch	
$V_{off\_on} := (h_{on} - h_{off}) \cdot V_{in}$	Volume between "off" and "on" level	
$T_{empty} := \frac{V_{off\_on}}{Q_{pumpRPSLift}}$	Time to empty (Neglecting incoming flow)	$T_{empty} = 10.184 \cdot \text{min}$
$T_{fill} := \frac{V_{off\_on}}{Q_{sump}}$	Time to fill	$T_{fill} = 40.735 \cdot \text{min}$

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**6.2.3 Sizing of the new 326 PS Sump**

The sump needs to accommodate a certain amount of flow from the 326 building process sewer system. Since the sump pump will automatically activate and remove liquid, the sump does not need to hold a day's worth of accumulation. This calculation arbitrarily considers the sump to accumulate 1/2 day's effluents from 326.

The 326 PS flow rate is (from Section 1.3 Criteria):

$$Q_{326PS} = 100 \cdot \frac{\text{gal}}{\text{day}}$$

$$V_{326Sump} := Q_{326PS} \cdot .5 \text{day}$$

$$V_{326Sump} = 50 \text{ gal} \qquad \text{Volumetric capacity of the 326 Sump}$$

There are dimensional limits imposed upon the 326 sump due to the size of the room in which it is located. The sump is limited to 24-inches wide. The length can be up to 3 feet, and the depth has no known limitation.

Try a 2-foot depth

$$L_w := 2 \text{ft} \qquad \text{Width of the sump}$$

$$L_d := 2 \text{ft} \qquad \text{Depth of the sump}$$

$$L_L := \frac{V_{326Sump}}{L_w \cdot L_d}$$

$$L_L = 1.671 \text{ ft} \qquad \text{Resulting length of the sump}$$

These reflect the minimum dimensions of the 326 sump. It can be deeper or longer, if desired, without requiring a revision to this calculation.

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**6.2.4 Size the 326 Sump Pump**

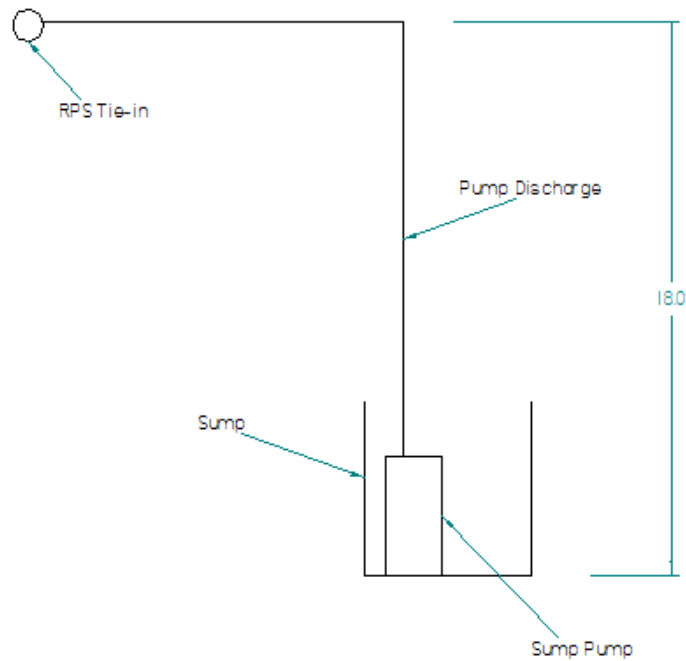


Figure 4, 326 Sump Pump Discharge

Estimate the TDH based on the static head requirement, and add 100% to account for friction head losses.

$$H_{\text{stat}} := 18\text{ft}$$

$$H_{\text{tdhest}} := 2 \cdot H_{\text{stat}}$$

$$H_{\text{tdhest}} = 36\text{ft}$$

Estimated TDH

The SP750 submersible pump, as shown in Figure 3, will provide about 18 gpm at 36 feet of head. Select this pump and use it to size the discharge line.

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At 18 gpm, and using Table B-14 from Ref. 5.2, a 1 1/2 inch line provides flows and pressure drop as shown.

$$Q_{326\text{pump}} := 18\text{gpm}$$

$$V_{326\text{pump}} := 2.84 \frac{\text{ft}}{\text{sec}}$$

Velocity per Ref. 5.2, Table B-14, for 18 gpm interpolating

This velocity is borderline low. A 1-inch nominal line would be a better selection.

$$V_{326\text{pump}} := 6.68 \frac{\text{ft}}{\text{sec}}$$

Velocity per Ref 5.2, Table B-14, for 18 gpm and 1-inch pipe, interpolated

$$\text{Delta}P_{100} := 9.08\text{psi}$$

Pressure drop per 100 feet of pipe, Ref. 5.2, Table B-14, for 18 gpm interpolating

Numbers and equivalent length of fittings. Equivalent lengths are taken from Ref 5.5 Section 3 Appendix J for Screwed Steel pipe. This is expected to be conservative when applied to a PVC pipe system.

$$N_{90b} := 2 \quad \text{Number of 90 degree elbows}$$

$$N_{45} := 6 \quad \text{Number of 45 degree elbows}$$

$$N_{teebr1} := 1 \quad \text{Number of branch flow tees}$$

$$N_{gate1} := 1 \quad \text{Number of gate valves}$$

$$N_{union} := 3 \quad \text{Number of unions}$$

$$N_{check} := 1 \quad \text{Number of check valves}$$

$$N_{lat} := 1 \quad \text{Number of laterals}$$

$$L_{90b} := 5.2\text{ft} \quad \text{Equivalent length 90 deg elbow}$$

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- $L_{45} := .81\text{ft}$  Equivalent length 45 deg elbow
- $L_{teebr1} := 3.3\text{ft}$  Equivalent length tee branch flow
- $L_{globe1} := 29\text{ft}$  Equivalent length globe valve
- $L_{union} := .29\text{ft}$  Equivalent length union
- $L_{check} := 11\text{ft}$  Equivalent length check valve
- $L_{lat} := 3.3\text{ft}$  Equivalent length lateral - assume equivalent to a branch flow tee.
- $L_{sp1} := 230\text{ft}$  Length of straight pipe in the system

$$L_{fitgs} := N_{90b} \cdot L_{90b} + N_{45} \cdot L_{45} + N_{teebr1} \cdot L_{teebr1} + N_{gate1} \cdot L_{globe1} + N_{union} \cdot L_{union} \dots \\ + N_{check} \cdot L_{check} + N_{lat} \cdot L_{lat} + L_{sp1}$$

$$L_{fitgs} = 292.73\text{ ft} \quad \text{Equivalent length of all pipe and fittings}$$

$$P_{drop1} := \text{DeltaP1}_{100} \cdot \left( \frac{L_{fitgs}}{100\text{ft}} \right)$$

$$P_{drop1} = 26.58 \cdot \text{psi} \quad \text{Total system head loss, psi}$$

$$P_{drop1} = 11.506 \text{ ft} \quad \text{System head loss in feet}$$

$$\text{TDH}_{326\text{sump}} := P_{drop1} + H_{stat}$$

$$\text{TDH}_{326\text{sump}} = 29.506 \text{ ft}$$

Reentering Figure 3 for the SP750 pump, the flow at 30ft head is 20 gpm

$$Q_{326\text{pump}} := 20\text{gpm}$$



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Horsepower required to pump:

The equation for horsepower is taken from Ref. 5.5, Table 4.3. The authors of the reference manual already worked out conversion factors for their equations. The equation is known to be accurate, but since MathCAD accounts for all units, a dummy conversion factor  $C_1$  (from the RPS pump calculation in Section 6.2.2) was inserted following the 3956 value to make the units of the solution work out.

$$\text{bhp}_{326} := \frac{\text{TDH}_{326\text{sump}} \cdot \text{Q}_{326\text{pump}}}{3956 \cdot C_1 \cdot \eta_p}$$

$$\text{bhp}_{326} = 0.249 \cdot \text{hp}$$

If selecting a pump other than that used for this analysis, choose a 1/3 hp pump to account for electric motor inefficiency.

Sump pump cycle time:

Actual dimensions of the designed 326 sump are larger than the minimums calculated and will be redefined here.

$L_{\text{width}} := 24\text{in}$  Length of square sump side

$L_{\text{depth}} := 36\text{in}$  Depth of sump

$V_{\text{in\_sump}} := L_{\text{width}}^2$  Volume of sump per inch

$L_{326\text{on}} := 30\text{in}$  326 Sump Pump "ON" Level

$L_{326\text{off}} := 2\text{in}$  326 Sump Pump "OFF" level

$V_{326\text{off\_on}} := (L_{326\text{on}} - L_{326\text{off}}) \cdot V_{\text{in\_sump}}$  Volume between "OFF" and "ON" Levels.

$T_{326\text{empty}} := \frac{V_{326\text{off\_on}}}{Q_{326\text{pump}}}$  Time to empty (neglecting incoming flow)  $T_{326\text{empty}} = 3.491 \cdot \text{min}$

$T_{326\text{fill}} := \frac{V_{326\text{off\_on}}}{Q_{326\text{PS}}}$  Time to fill  $T_{326\text{fill}} = 16.756 \cdot \text{hr}$

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**6.2.5 Size the Spill Retention Curb for the Tank Pad**

Reference 5.7, Section 4.9.2 requires a spill containment system capable of holding spills and leaks equal to 10% of the total volume, or 10% of the largest container; whichever is greater.

10% of the total volume, given 4 tanks at 4300 gal each:

$Tank_{vtotal} := 4 \cdot 4300 \text{gal}$

$Tank_{vtotal} = 1.72 \times 10^4 \cdot \text{gal}$  Capacity of all 4 tanks

$Vol_{contmnt} := 0.1 \cdot Tank_{vtotal}$

$Vol_{contmnt} = 1.72 \times 10^3 \cdot \text{gal}$  Containment volume required based on total tank volume

10% of the largest container's volume (all tanks are the same size):

$Tank_{volone} := 4300 \text{gal}$

$Vol_{contmnt2} := 0.1 \cdot Tank_{volone}$

$Vol_{contmnt2} = 430 \cdot \text{gal}$  Containment volume required based on 1 tank volume

The capacity of the containment will need to be based on total volume since that value is greater.

Determine the spill retention curb height based on a 30 foot square pad with a 4 foot square by 5 foot deep sump in the center.

$L_{pad} := 30 \text{ft}$  Length of one side of the pad

$L_{smp} := 3 \text{ft}$  Length of one side of the sump

$h_{smp} := 4 \text{ft}$  Depth of the sump

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$$h_{\text{curb}} := \frac{\text{Vol}_{\text{contmnt}} - L_{\text{smp}}^2 \cdot h_{\text{smp}}}{L_{\text{pad}}^2}$$

$$h_{\text{curb}} = 2.586 \text{ in}$$

Minimum required height of the curb, but use a 3" curb.

### 7.0 SUMMARY OF RESULTS

The following values summarize the results of this calculation.

#### **Tank Drain to SS-83:**

The drain line from the tanks to the SS-83 manhole is to be a 2-inch schedule 40 PVC pipe.

#### **RPS-3 Lift Station:**

The RPS-3 Lift station discharge line is to be a 1-inch schedule 40 PVC pipe. The pump for the lift station is to be an Aquatic ECO-Systems Inc., Model SP750 high-head submersible pump, operating at 20gpm and 30ft head.

#### **326 Process Sewer Sump Dimensions:**

The new sump for the 326 process sewer is to be 2 foot wide, by 2 foot deep by 20" long. The width dimension is restricted, however the remaining dimensions can be increased as needed. The volume of the sump is sized to handle 50 gallons of the 100 gal/day PS flow.

#### **326 Process Sewer Sump Pump and discharge line:**

This sump pump is sized to provide 20 gpm at 30 feet head through a 1-inch schedule 40 PVC pipe.

#### **Tank Pad Spill Containment Curb:**

The spill containment curb surrounding the retention tank pad is required to be 3" high, to contain 10% of the total volume of the 4 tanks as required per WCH-56.

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**Appendix A  
(Reference Data)**

**CALCULATION SHEET**

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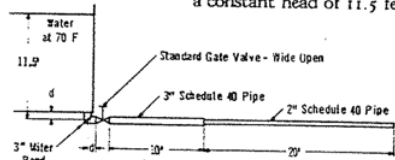
CHAPTER 4 - EXAMPLES OF FLOW PROBLEMS

CRANE

**Discharge of Fluids from Piping Systems**

**Example 4-19...Water**

Given: Water at 60 F is flowing from a reservoir through the piping system below. The reservoir has a constant head of 11.5 feet.



Find: The flow rate in gallons per minute.

Solution: 1.  $Q = 19.65 d^2 \sqrt{\frac{h_L}{K}}$  ...page 3-4

$R_e = \frac{50.6 Q \rho}{d \mu}$  ..... page 3-2

$\beta = d_1/d_2$  ..... page A-26

2.  $K = 0.5$  ..... entrance; page A-29

$K = 60 f_T$  ..... mitre bend; page A-29

$K_1 = 8 f_T$  ..... gate valve; page A-27

$K = f \frac{L}{D}$  ..... straight pipe; page 3-4

$K_2 = \frac{0.5 (1 - \beta^2) \sqrt{\sin \frac{\theta}{2}}}{\beta^4}$  ..... sudden contraction; page A-26

$K = \frac{fL}{D\beta^4}$  ..... (small pipe, in terms of larger pipe; page 2-5)

$K = \frac{1}{\beta^4}$  ..... (exit from small pipe in terms of larger pipe)

3.  $d = 2.067$  ..... 2" Sched. 40 pipe; page B-16

$d = 3.068$  ..... 3" Sched. 40 pipe; page B-16

$\mu = 1.1$  ..... page A-3

$\rho = 62.371$  ..... page A-6

$f_T = 0.019$  ..... 2" pipe; page A-26

$f_T = 0.018$  ..... 3" pipe; page A-26

4.  $\beta = 2.067 / 3.068 = 0.67$

$K = 0.5$  ..... 3" entrance

$K = 60 \times 0.018 = 1.08$  ..... 3" mitre bend

$K_1 = 8 \times 0.018 = 0.14$  ..... 3" gate valve

$K = \frac{0.018 \times 10 \times 12}{3.068} = 0.70$  ... 10 feet, 3" pipe

For 20 feet of 2-inch pipe, in terms of 3-inch pipe,

$K = \frac{0.019 \times 20 \times 12}{2.067 \times 0.67^4} = 10.9$

For 2-inch exit, in terms of 3-inch pipe,

$K = 1 + 0.67^4 = 5.0$

For sudden contraction,

$K_2 = \frac{0.5 (1 - 0.67^2) (1)}{0.67^4} = 1.37$

and,  $K_{TOTAL} = 0.5 + 1.08 + 0.14 + 0.70 + 10.9 + 5.0 + 1.37 = 19.7$

5.  $Q = 19.65 \times 3.068^2 \sqrt{11.5 / 19.7} = 141$   
(this solution assumes flow in fully turbulent zone)

6. Calculate Reynolds numbers and check friction factors for flow in straight pipe of the 2-inch size:

$R_e = \frac{50.6 \times 141 \times 62.371}{2.067 \times 1.1} = 1.96 \times 10^5$

$f = 0.021$  ..... page A-25

and for flow in straight pipe of the 3-inch size:

$R_e = \frac{50.6 \times 141 \times 62.371}{3.068 \times 1.1} = 1.32 \times 10^5$

$f = 0.020$  ..... page A-25

7. Since assumed friction factors used for straight pipe in Step 4 are not in agreement with those based on the approximate flow rate, the K factors for these items and the total system should be corrected accordingly.

$K = \frac{0.020 \times 10 \times 12}{3.068} = 0.78$  ... 10 feet, 3" pipe

For 20 feet of 2-inch pipe, in terms of 3-inch pipe,

$K = \frac{0.021 \times 20 \times 12}{2.067 \times 0.67^4} = 12.1$

and,  $K_{TOTAL} = 0.5 + 1.08 + 0.14 + 0.78 + 12.1 + 5.0 + 1.37 = 21.0$

$Q = 19.65 \times 3.068^2 \sqrt{11.5 / 21} = 137$

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A - 26 APPENDIX A - PHYSICAL PROPERTIES OF FLUIDS AND FLOW CHARACTERISTICS OF VALVES, FITTINGS, AND PIPE CRANE

"K" FACTOR TABLE—SHEET 1 of 4  
**Representative Resistance Coefficients (K) for Valves and Fittings**

("K" is based on use of schedule pipe as listed on page 2-10)

**PIPE FRICTION DATA FOR CLEAN COMMERCIAL STEEL PIPE  
WITH FLOW IN ZONE OF COMPLETE TURBULENCE**

Nominal Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2, 3"	4"	5"	6"	8-10"	12-16"	18-24"
Friction Factor (f <sub>t</sub> )	.027	.025	.023	.022	.021	.019	.018	.017	.016	.015	.014	.013	.012

**FORMULAS FOR CALCULATING "K" FACTORS  
FOR VALVES AND FITTINGS WITH REDUCED PORT**

• Formula 1

$$K_2 = \frac{0.8 \sin \frac{\theta}{2} (1 - \beta^2)}{\beta^4}$$

• Formula 2

$$K_2 = \frac{0.5 (1 - \beta^2) \sqrt{\sin \frac{\theta}{2}}}{\beta^4}$$

• Formula 3

$$K_2 = \frac{2.6 \sin \frac{\theta}{2} (1 - \beta^2)^2}{\beta^4}$$

• Formula 4

$$K_2 = \frac{(1 - \beta^2)^2}{\beta^4}$$

• Formula 5

$$K_2 = \frac{K_1}{\beta^4} + \text{Formula 1} + \text{Formula 3}$$

$$K_2 = \frac{K_1 + \sin \frac{\theta}{2} [0.8 (1 - \beta^2) + 2.6 (1 - \beta^2)^2]}{\beta^4}$$

• Formula 6

$$K_2 = \frac{K_1}{\beta^4} + \text{Formula 2} + \text{Formula 4}$$

$$K_2 = \frac{K_1 + 0.5 \sqrt{\sin \frac{\theta}{2}} (1 - \beta^2) + (1 - \beta^2)^2}{\beta^4}$$

• Formula 7

$$K_2 = \frac{K_1}{\beta^4} + \beta \text{ (Formula 2 + Formula 4) when } \theta = 180^\circ$$

$$K_2 = \frac{K_1 + \beta [0.5 (1 - \beta^2) + (1 - \beta^2)^2]}{\beta^4}$$

$$\beta = \frac{d_1}{d_2}$$

$$\beta^2 = \left(\frac{d_1}{d_2}\right)^2 = \frac{a_1}{a_2}$$

Subscript 1 defines dimensions and coefficients with reference to the smaller diameter.  
Subscript 2 refers to the larger diameter.

**SUDDEN AND GRADUAL CONTRACTION**



If:  $\theta \approx 45^\circ \dots \dots \dots K_2 = \text{Formula 1}$   
 $45^\circ < \theta \approx 130^\circ \dots \dots K_2 = \text{Formula 2}$

**SUDDEN AND GRADUAL ENLARGEMENT**



If:  $\theta \approx 45^\circ \dots \dots \dots K_2 = \text{Formula 3}$   
 $45^\circ < \theta \approx 180^\circ \dots \dots K_2 = \text{Formula 4}$

**CALCULATION SHEET**

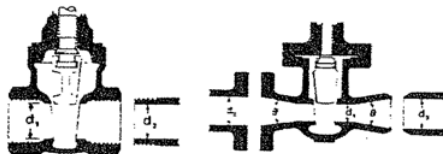
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"K" FACTOR TABLE—SHEET 2 of 4  
**Representative Resistance Coefficients (K) for Valves and Fittings**

(For formulas and friction data, see page A-26)  
("K" is based on use of schedule pipe as listed on page 2-10)

**GATE VALVES**  
Wedge Disc, Double Disc, or Plug Type



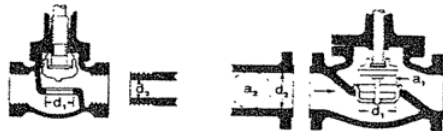
If:  $\beta = 1, \theta = 0 \dots K_1 = 8 f_r$   
 $\beta < 1$  and  $\theta \approx 45^\circ \dots K_2 = \text{Formula 5}$   
 $\beta < 1$  and  $45^\circ < \theta \approx 180^\circ \dots K_2 = \text{Formula 6}$

**SWING CHECK VALVES**



$K = 100 f_r$  Minimum pipe velocity (fps) for full disc lift =  $35 \sqrt{V}$   
 $K = 50 f_r$  Minimum pipe velocity (fps) for full disc lift =  $48 \sqrt{V}$

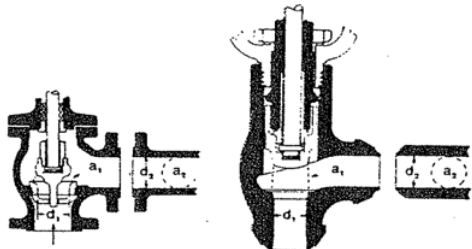
**GLOBE AND ANGLE VALVES**



If:  $\beta = 1 \dots K_1 = 340 f_r$



If:  $\beta = 1 \dots K_1 = 55 f_r$



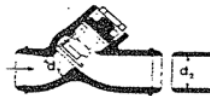
If:  $\beta = 1 \dots K_1 = 150 f_r$  If:  $\beta = 1 \dots K_1 = 55 f_r$

All globe and angle valves, whether reduced seat or throttle.  
If:  $\beta < 1 \dots K_2 = \text{Formula 5}$

**LIFT CHECK VALVES**

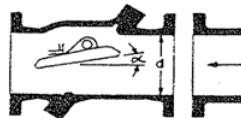


If:  $\beta = 1 \dots K_1 = 600 f_r$   
 $\beta < 1 \dots K_2 = \text{Formula 7}$   
Minimum pipe velocity (fps) for full disc lift =  $40 \beta^2 \sqrt{V}$



If:  $\beta = 1 \dots K_1 = 55 f_r$   
 $\beta < 1 \dots K_2 = \text{Formula 7}$   
Minimum pipe velocity (fps) for full disc lift =  $140 \beta^2 \sqrt{V}$

**TILTING DISC CHECK VALVES**



	$\alpha = 5^\circ$	$\alpha = 15^\circ$
Sizes 2 to 8" ... K =	40 f <sub>r</sub>	120 f <sub>r</sub>
Sizes 10 to 14" ... K =	30 f <sub>r</sub>	90 f <sub>r</sub>
Sizes 16 to 48" ... K =	20 f <sub>r</sub>	60 f <sub>r</sub>
Minimum pipe velocity (fps) for full disc lift =	$35 \sqrt{V}$	$48 \sqrt{V}$

**CALCULATION SHEET**

Washington  
Closure  
Hanford LLC

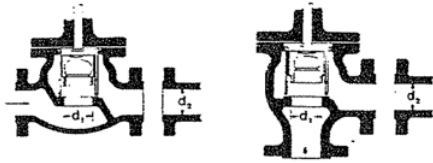
Originator: John Huber Date: 6-5-07 Calc No. 0300X-CA-M0001 Rev 0  
Project: 300 Area Utilities Job No. \_\_\_\_\_ Checked: J.Winters Date: 6-11-07  
Subject: Retention Process Sewer Reroute Sheet A 5 of A8

**A - 28** APPENDIX A - PHYSICAL PROPERTIES OF FLUIDS AND FLOW CHARACTERISTICS OF VALVES, FITTINGS, AND PIPE **CRANE**

**"K" FACTOR TABLE—SHEET 3 of 4**  
**Representative Resistance Coefficients (K) for Valves and Fittings**

(For formulas and friction data, see page A-26)  
("K" is based on use of scheduled pipe as listed on page 2-10)

**STOP-CHECK VALVES**  
(Globe and Angle Types)



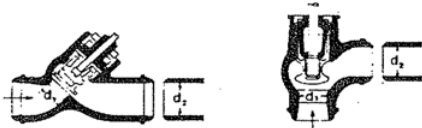
If:  $\beta = 1 \dots K_1 = 400 f_T$       If:  $\beta = 1 \dots K_1 = 200 f_T$   
 $\beta < 1 \dots K_2 = \text{Formula 7}$        $\beta < 1 \dots K_2 = \text{Formula 7}$

Minimum pipe velocity for full disc lift  
 $= 55 \beta^2 \sqrt{V}$       Minimum pipe velocity for full disc lift  
 $= 75 \beta^2 \sqrt{V}$



If:  $\beta = 1 \dots K_1 = 300 f_T$       If:  $\beta = 1 \dots K_1 = 350 f_T$   
 $\beta < 1 \dots K_2 = \text{Formula 7}$        $\beta < 1 \dots K_2 = \text{Formula 7}$

Minimum pipe velocity (fps) for full disc lift  
 $= 60 \beta^2 \sqrt{V}$



If:  $\beta = 1 \dots K_1 = 55 f_T$       If:  $\beta = 1 \dots K_1 = 55 f_T$   
 $\beta < 1 \dots K_2 = \text{Formula 7}$        $\beta < 1 \dots K_2 = \text{Formula 7}$

Minimum pipe velocity (fps) for full disc lift  
 $= 140 \beta^2 \sqrt{V}$

**FOOT VALVES WITH STRAINER**

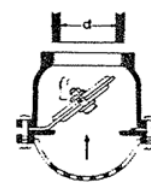
**Poppet Disc**



$K = 420 f_T$

Minimum pipe velocity (fps) for full disc lift  
 $= 15 \sqrt{V}$

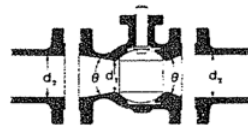
**Hinged Disc**



$K = 75 f_T$

Minimum pipe velocity (fps) for full disc lift  
 $= 35 \sqrt{V}$

**BALL VALVES**



If:  $\beta = 1, \theta = 0 \dots K_1 = 3 f_T$   
 $\beta < 1$  and  $\theta \approx 45^\circ \dots K_2 = \text{Formula 5}$   
 $\beta < 1$  and  $45^\circ < \theta \approx 180^\circ \dots K_2 = \text{Formula 6}$

**BUTTERFLY VALVES**



Sizes 2 to 8" ...  $K = 45 f_T$   
 Sizes 10 to 14" ...  $K = 35 f_T$   
 Sizes 16 to 24" ...  $K = 25 f_T$



**CALCULATION SHEET**

Washington  
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Originator: John Huber Date: 6-5-07 Calc No. 0300X-CA-M0001 Rev 0  
Project: 300 Area Utilities Job No. \_\_\_\_\_ Checked: J.Winters Date: 6-11-07  
Subject: Retention Process Sewer Reroute Sheet A 6 of A8

**"K" FACTOR TABLE— SHEET 4 of 4**  
**Representative Resistance Coefficients (K) for Valves and Fittings**  
(for formulas and friction data, see page A-26)

(\*K\* is based on use of schedule pipe as listed on page 2-10)

**PLUG VALVES AND COCKS**

**Straight-Way** **3-Way**

If:  $\beta = 1$ ,  $K_1 = 18 f_T$       If:  $\beta = 1$ ,  $K_1 = 30 f_T$       If:  $\beta = 1$ ,  $K_1 = 90 f_T$   
If:  $\beta < 1 \dots K_2 = \text{Formula 6}$

**STANDARD ELBOWS**

**90°** **45°**

$K = 30 f_T$        $K = 16 f_T$

**STANDARD TEES**

Flow thru run.....  $K = 20 f_T$   
Flow thru branch....  $K = 60 f_T$

**MITRE BENDS**

$\alpha$	K
0°	2 $f_T$
15°	4 $f_T$
30°	8 $f_T$
45°	15 $f_T$
60°	25 $f_T$
75°	40 $f_T$
90°	60 $f_T$

**90° PIPE BENDS AND FLANGED OR BUTT-WELDING 90° ELBOWS**

r/d	K	r/d	K
1	20 $f_T$	8	24 $f_T$
1.5	14 $f_T$	10	30 $f_T$
2	12 $f_T$	12	34 $f_T$
3	12 $f_T$	14	38 $f_T$
4	14 $f_T$	16	42 $f_T$
6	17 $f_T$	20	50 $f_T$

The resistance coefficient,  $K_B$ , for pipe bends other than 90° may be determined as follows:

$$K_B = (n - 1) \left( 0.25 \pi f_T \frac{r}{d} + 0.5 K \right) + K$$

$n$  = number of 90° bends  
 $K$  = resistance coefficient for one 90° bend (per table)

**PIPE ENTRANCE**

**Inward Projecting** **Flush**

r/d	K
0.00*	0.5
0.02	0.28
0.04	0.24
0.06	0.15
0.10	0.09
0.15 & up	0.04

\*Sharp-edged. For  $K$ , see table

$K = 0.78$

**CLOSE PATTERN RETURN BENDS**

$K = 50 f_T$

**PIPE EXIT**

**Projecting** **Sharp-Edged** **Rounded**

$K = 10$        $K = 10$        $K = 10$

**CALCULATION SHEET**

Washington  
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Hanford LLC

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Project: 300 Area Utilities Job No. \_\_\_\_\_ Checked: J.Winters Date: 6-11-07  
Subject: Retention Process Sewer Reroute Sheet A 7 of A8

**CRANE**

APPENDIX B - ENGINEERING DATA

**B-9**

**Power Required for Pumping**

Gals. per Min.	Theoretical Horsepower Required to Raise Water (at 60 F) To Different Heights														
	5 feet	10 feet	15 feet	20 feet	25 feet	30 feet	35 feet	40 feet	45 feet	50 feet	60 feet	70 feet	80 feet	90 feet	100 feet
5	0.006	0.013	0.019	0.025	0.032	0.038	0.044	0.051	0.057	0.063	0.076	0.088	0.101	0.114	0.126
10	0.013	0.025	0.038	0.051	0.063	0.076	0.088	0.101	0.114	0.126	0.152	0.177	0.202	0.227	0.253
15	0.019	0.038	0.057	0.076	0.095	0.114	0.133	0.152	0.171	0.190	0.227	0.265	0.303	0.341	0.379
20	0.025	0.051	0.076	0.101	0.126	0.152	0.177	0.202	0.227	0.253	0.303	0.354	0.404	0.455	0.505
25	0.032	0.063	0.095	0.126	0.158	0.190	0.221	0.253	0.284	0.316	0.379	0.442	0.505	0.568	0.632
30	0.038	0.076	0.114	0.152	0.190	0.227	0.265	0.303	0.341	0.379	0.455	0.531	0.606	0.682	0.758
35	0.044	0.088	0.133	0.177	0.221	0.265	0.310	0.354	0.398	0.442	0.531	0.619	0.707	0.796	0.884
40	0.051	0.101	0.152	0.202	0.253	0.303	0.354	0.404	0.455	0.505	0.606	0.707	0.808	0.910	1.011
45	0.057	0.114	0.171	0.227	0.284	0.341	0.398	0.455	0.512	0.568	0.682	0.796	0.910	1.023	1.137
50	0.063	0.126	0.190	0.253	0.316	0.379	0.442	0.505	0.568	0.632	0.758	0.884	1.011	1.137	1.263
60	0.076	0.152	0.227	0.303	0.379	0.455	0.531	0.606	0.682	0.758	0.910	1.061	1.213	1.364	1.516
70	0.088	0.177	0.265	0.354	0.442	0.531	0.619	0.707	0.796	0.884	1.061	1.238	1.415	1.592	1.768
80	0.101	0.202	0.303	0.404	0.505	0.606	0.707	0.808	0.910	1.011	1.213	1.415	1.617	1.819	2.021
90	0.114	0.227	0.341	0.455	0.568	0.682	0.796	0.910	1.023	1.137	1.364	1.592	1.819	2.046	2.274
100	0.126	0.253	0.379	0.505	0.632	0.758	0.884	1.011	1.137	1.263	1.516	1.768	2.021	2.274	2.526
125	0.158	0.316	0.474	0.632	0.790	0.947	1.105	1.263	1.421	1.579	1.895	2.211	2.526	2.842	3.158
150	0.190	0.379	0.568	0.758	0.947	1.137	1.326	1.516	1.705	1.895	2.274	2.653	3.032	3.411	3.790
175	0.221	0.442	0.663	0.884	1.105	1.326	1.547	1.768	1.990	2.211	2.653	3.095	3.537	3.979	4.421
200	0.253	0.505	0.758	1.011	1.263	1.516	1.768	2.021	2.274	2.526	3.032	3.537	4.042	4.548	5.053
250	0.316	0.632	0.947	1.263	1.579	1.895	2.211	2.526	2.842	3.158	3.790	4.421	5.053	5.684	6.316
300	0.379	0.758	1.137	1.516	1.895	2.274	2.653	3.032	3.411	3.790	4.548	5.305	6.063	6.821	7.579
350	0.442	0.884	1.326	1.768	2.211	2.653	3.095	3.537	3.979	4.421	5.305	6.190	7.074	7.958	8.842
400	0.505	1.011	1.516	2.021	2.526	3.032	3.537	4.042	4.548	5.053	6.063	7.074	8.084	9.095	10.11
500	0.632	1.263	1.895	2.526	3.158	3.790	4.421	5.053	5.684	6.316	7.579	8.842	10.11	11.37	12.63

Gals. per Min.	125 feet	150 feet	175 feet	200 feet	250 feet	300 feet	350 feet	400 feet
5	0.158	0.190	0.221	0.253	0.316	0.379	0.442	0.505
10	0.316	0.379	0.442	0.505	0.632	0.758	0.884	1.011
15	0.474	0.568	0.663	0.758	0.947	1.137	1.326	1.516
20	0.632	0.758	0.884	1.011	1.263	1.516	1.768	2.021
25	0.790	0.947	1.105	1.263	1.579	1.895	2.211	2.526
30	0.947	1.137	1.326	1.516	1.895	2.274	2.653	3.032
35	1.105	1.326	1.547	1.768	2.211	2.653	3.095	3.537
40	1.263	1.516	1.768	2.021	2.526	3.032	3.537	4.042
45	1.421	1.705	1.990	2.274	2.842	3.411	3.979	4.548
50	1.579	1.895	2.211	2.526	3.158	3.790	4.421	5.053
60	1.895	2.274	2.653	3.032	3.790	4.548	5.305	6.063
70	2.211	2.653	3.095	3.537	4.421	5.305	6.190	7.074
80	2.526	3.032	3.537	4.042	5.053	6.063	7.074	8.084
90	2.842	3.411	3.979	4.548	5.684	6.821	7.958	9.095
100	3.158	3.790	4.421	5.053	6.316	7.579	8.842	10.11
125	3.948	4.737	5.527	6.316	7.895	9.474	11.05	12.63
150	4.737	5.684	6.632	7.579	9.474	11.37	13.26	15.16
175	5.527	6.632	7.737	8.842	11.05	13.26	15.47	17.68
200	6.316	7.579	8.842	10.11	12.63	15.16	17.68	20.21
250	7.895	9.474	11.05	12.63	15.79	18.95	22.11	25.26
300	9.474	11.37	13.26	15.16	18.95	22.74	26.53	30.32
350	11.05	13.26	15.47	17.68	22.11	26.53	30.95	35.37
400	12.63	15.16	17.68	20.21	25.26	30.32	35.37	40.42
500	15.79	18.95	22.11	25.26	31.58	37.90	44.21	50.53

HORSEPOWER = 33 000 ... ft-lb/min  
 = 550 ... ft-lb/sec  
 = 2544.48 ... Btu/hr  
 = 745.7 ... watts

$(whp) = QHp \div 2.47 \text{ 000} = QP \div 17.14$   
 $(bhp) = (whp) \div e_p = QHp \div 2.47 \text{ 000 } e_p$   
 $(e_p) = QHp \div 2.47 \text{ 000 } (bhp)$   
 where:  $(whp)$  = water horsepower  
 $H$  = pump head in feet  
 $(bhp)$  = brake horsepower  
 $e_p$  = pump efficiency

Overall efficiency ( $e_o$ ) takes into account all losses in the pump and driver.

$e_o = e_p e_D e_T$   
 where:  $e_D$  = driver efficiency  
 $e_T$  = transmission efficiency  
 $e_V$  = volumetric efficiency  
 $e_V(\%) = \frac{\text{actual pump displacement } (Q) (100)}{\text{theoretical pump displacement } (Q)}$

Note: For fluids other than water, multiply table values by specific gravity. In pumping liquids with a viscosity considerably higher than that of water, the pump capacity and head are reduced. To calculate the horsepower for such fluids, pipe friction head must be added to the elevation head to obtain the total head; this value is inserted in the first horsepower equation given above.

Specific gravity of water..... page A-6  
 Specific gravity of liquids other than water.... page A-7

### CALCULATION SHEET

Washington  
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Hanford LLC

Originator: John Huber Date: 6-5-07 Calc No. 0300X-CA-M0001 Rev 0  
Project: 300 Area Utilities Job No. Checked: J.Winters Date: 6-11-07  
Subject: Retention Process Sewer Reroute Sheet A 8 of A8

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APPENDIX B - ENGINEERING DATA

CRANE

#### Flow of Water Through Schedule 40 Steel Pipe

Discharge		Pressure Drop per 100 feet and Velocity in Schedule 40 Pipe for Water at 60 F.															
Gallons per Minute	Cubic Ft. per Second	1/8"		1/4"		3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"	
		Velocity Feet per Second	Pressure Drop Lbs. per Sq. In.	Velocity Feet per Second	Pressure Drop Lbs. per Sq. In.	Velocity Feet per Second	Pressure Drop Lbs. per Sq. In.	Velocity Feet per Second	Pressure Drop Lbs. per Sq. In.	Velocity Feet per Second	Pressure Drop Lbs. per Sq. In.	Velocity Feet per Second	Pressure Drop Lbs. per Sq. In.	Velocity Feet per Second	Pressure Drop Lbs. per Sq. In.	Velocity Feet per Second	Pressure Drop Lbs. per Sq. In.
2	0.000446	1.13	1.86	0.616	0.359	0.324	0.903	0.504	0.159	0.317	0.061						
3	0.000668	1.69	4.22	0.924	0.504	0.472	1.359	0.751	0.239	0.472	0.086						
4	0.000891	2.26	6.98	1.23	0.672	0.640	1.814	1.058	0.359	0.640	0.121						
5	0.001114	2.82	10.5	1.54	0.840	0.840	2.279	1.356	0.472	0.840	0.166						
6	0.001337	3.39	14.7	1.85	1.008	1.008	2.744	1.654	0.594	1.008	0.211						
8	0.001782	4.52	25.0	2.46	1.344	1.344	3.619	2.178	0.781	1.344	0.286						
10	0.002228	5.65	37.2	3.08	1.680	1.680	4.484	2.702	0.969	1.680	0.361						
12	0.002674	6.78	50.0	3.69	2.016	2.016	5.349	3.226	1.156	2.016	0.436						
15	0.003342	8.59	75.0	4.61	2.702	2.702	6.914	4.140	1.442	2.702	0.561						
20	0.004456	11.59	134.4	6.16	3.619	3.619	9.114	5.442	1.914	3.619	0.736						
25	0.05570	14.59	225.0	7.71	4.527	4.527	11.314	6.744	2.386	4.527	0.911						
30	0.06684	17.59	315.0	9.26	5.435	5.435	13.514	8.046	2.858	5.435	1.086						
35	0.07798	20.59	405.0	10.81	6.343	6.343	15.714	9.348	3.330	6.343	1.261						
40	0.08912	23.59	495.0	12.36	7.251	7.251	17.914	10.650	3.802	7.251	1.436						
45	0.1003	26.59	585.0	13.91	8.159	8.159	20.114	11.952	4.274	8.159	1.611						
50	0.1114	29.59	675.0	15.46	9.067	9.067	22.314	13.254	4.746	9.067	1.786						
60	0.1337	37.59	1008.0	20.61	12.360	12.360	29.514	17.952	6.300	12.360	2.360						
70	0.1560	45.59	1341.0	25.76	15.654	15.654	36.714	22.650	7.854	15.654	2.934						
80	0.1782	53.59	1674.0	30.91	18.948	18.948	43.914	27.348	9.408	18.948	3.508						
90	0.2005	61.59	2007.0	36.06	22.242	22.242	51.114	32.046	10.962	22.242	4.082						
100	0.2228	69.59	2340.0	41.21	25.536	25.536	58.314	36.744	12.516	25.536	4.656						
125	0.2735	87.59	3105.0	51.51	32.934	32.934	73.914	46.042	15.714	32.934	5.714						
150	0.3242	105.59	3870.0	61.81	40.332	40.332	89.514	55.340	18.914	40.332	6.772						
175	0.3749	123.59	4635.0	72.11	47.730	47.730	105.114	64.638	22.114	47.730	7.830						
200	0.4256	141.59	5400.0	82.41	55.128	55.128	120.714	73.936	25.314	55.128	8.888						
225	0.5013	159.59	6165.0	92.71	62.526	62.526	136.314	83.234	28.514	62.526	9.946						
250	0.557	177.59	6930.0	103.01	70.924	70.924	151.914	92.532	31.714	70.924	11.004						
275	0.6127	195.59	7695.0	113.31	79.322	79.322	167.514	101.830	34.914	79.322	12.062						
300	0.6684	213.59	8460.0	123.61	87.720	87.720	183.114	111.128	38.114	87.720	13.120						
325	0.7241	231.59	9225.0	133.91	96.118	96.118	198.714	120.426	41.314	96.118	14.178						
350	0.7798	249.59	9990.0	144.21	104.516	104.516	214.314	129.724	44.514	104.516	15.236						
375	0.8355	267.59	10755.0	154.51	112.914	112.914	229.914	139.022	47.714	112.914	16.294						
400	0.8912	285.59	11520.0	164.81	121.312	121.312	245.514	148.320	50.914	121.312	17.352						
425	0.9469	303.59	12285.0	175.11	129.710	129.710	261.114	157.618	54.114	129.710	18.410						
450	1.003	321.59	13050.0	185.41	138.108	138.108	276.714	166.916	57.314	138.108	19.468						
475	1.059	339.59	13815.0	195.71	146.506	146.506	292.314	176.214	60.514	146.506	20.526						
500	1.114	357.59	14580.0	206.01	154.904	154.904	307.914	185.512	63.714	154.904	21.584						
550	1.225	411.59	16710.0	241.01	187.870	187.870	363.514	223.910	77.114	187.870	25.582						
600	1.337	465.59	18840.0	276.01	220.836	220.836	419.114	262.308	90.514	220.836	29.580						
650	1.448	519.59	20970.0	311.01	253.802	253.802	474.714	300.706	103.914	253.802	33.578						
700	1.560	573.59	23100.0	346.01	286.768	286.768	530.314	339.104	117.314	286.768	37.576						
750	1.671	627.59	25230.0	381.01	319.734	319.734	585.914	377.502	130.714	319.734	41.574						
800	1.782	681.59	27360.0	416.01	352.700	352.700	641.514	415.900	144.114	352.700	45.572						
850	1.894	735.59	29490.0	451.01	385.666	385.666	697.114	454.298	157.514	385.666	49.570						
900	2.005	789.59	31620.0	486.01	418.632	418.632	752.714	492.696	170.914	418.632	53.568						
950	2.117	843.59	33750.0	521.01	451.598	451.598	808.314	531.094	184.314	451.598	57.566						
1000	2.228	897.59	35880.0	556.01	484.564	484.564	863.914	569.492	197.714	484.564	61.564						
1100	2.451	1019.59	40110.0	626.01	541.470	541.470	969.514	635.890	224.514	541.470	69.562						
1200	2.674	1141.59	44340.0	696.01	598.376	598.376	1075.114	702.288	251.314	598.376	77.560						
1300	2.896	1263.59	48570.0	766.01	655.282	655.282	1180.714	768.686	278.114	655.282	85.558						
1400	3.119	1385.59	52800.0	836.01	712.188	712.188	1286.314	835.084	304.914	712.188	93.556						
1500	3.342	1507.59	57030.0	906.01	769.094	769.094	1391.914	901.482	331.714	769.094	101.554						
1600	3.565	1629.59	61260.0	976.01	826.000	826.000	1497.514	967.880	358.514	826.000	109.552						
1800	4.010	1879.59	69690.0	1108.01	947.812	947.812	1719.114	1119.078	410.314	947.812	125.550						
2000	4.456	2129.59	78120.0	1240.01	1069.624	1069.624	1940.714	1270.276	462.114	1069.624	141.548						
2500	5.570	2679.59	99450.0	1524.01	1332.480	1332.480	2446.314	1606.674	574.914	1332.480	173.546						
3000	6.684	3229.59	120780.0	1808.01	1595.336	1595.336	2951.914	1943.072	687.714	1595.336	205.544						
3500	7.798	3779.59	142110.0	2092.01	1858.192	1858.192	3457.514	2279.470	800.514	1858.192	237.542						
4000	8.912	4329.59	163440.0	2376.01	2121.048	2121.048	3963.114	2615.868	913.314	2121.048	269.540						
4500	10.03	4879.59	184770.0	2660.01	2383.904	2383.904	4468.714	2952.266	1026.114	2383.904	301.538						
5000	11.14	5429.59	206100.0	2944.01	2646.760	2646.760	4974.314	3288.664	1138.914	2646.760	333.536						
6000	13.37	6543.59	248430.0	3528.01	3170.616	3170.616	5989.914	3958.062	1386.714	3170.616	401.534						
7000	15.60	7657.59	290760.0	4112.01	3694.472	3694.472	6995.514	4627.460	1634.514	3694.472	469.532						
8000	17.82	8771.59	333090.0	4696.01	4218.328	4218.328	8001.114	5296.858	1882.314	4218.328	537.530						



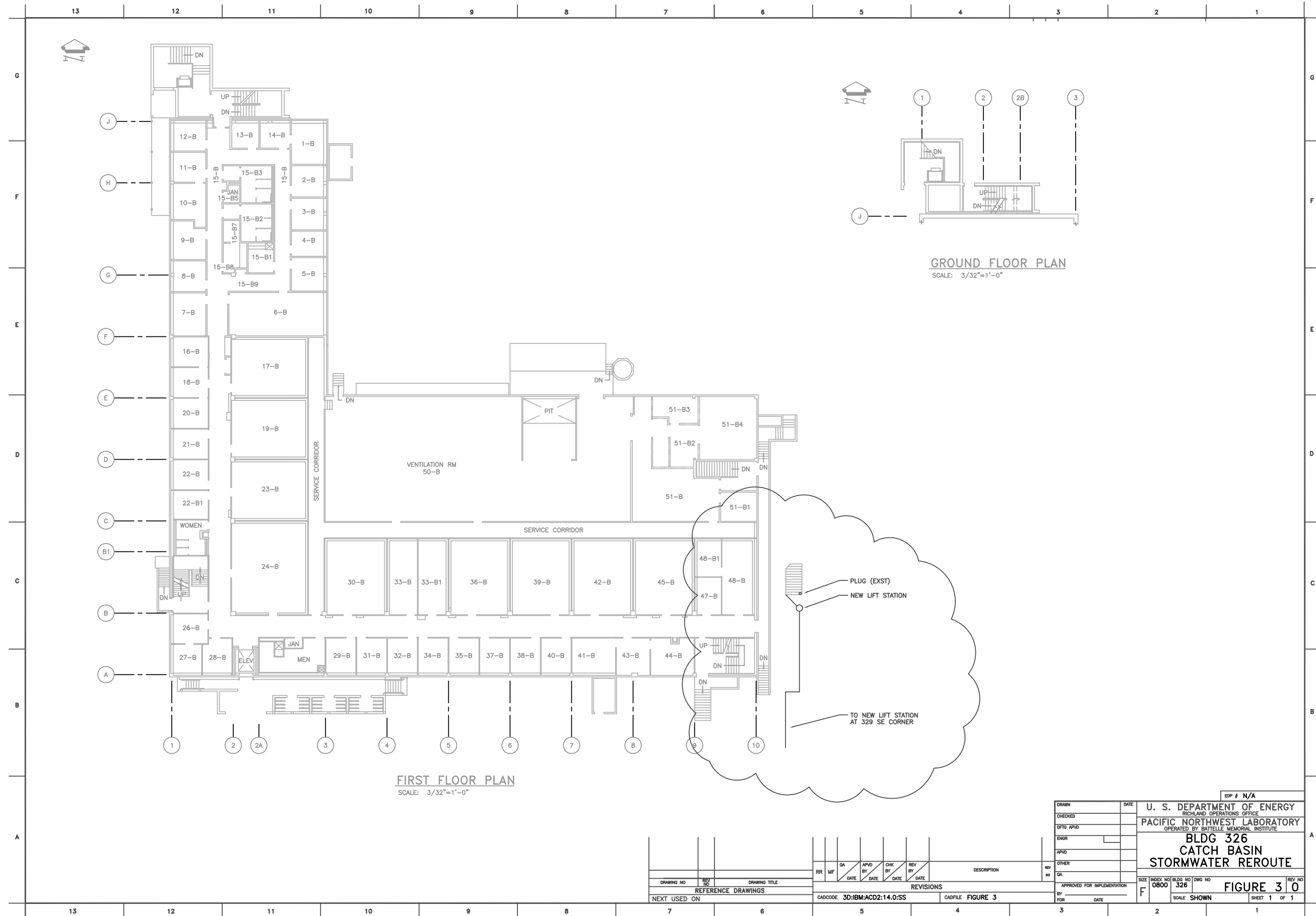
**APPENDIX J**  
**300 AREA STORM WATER CONCEPTUAL DESIGN**

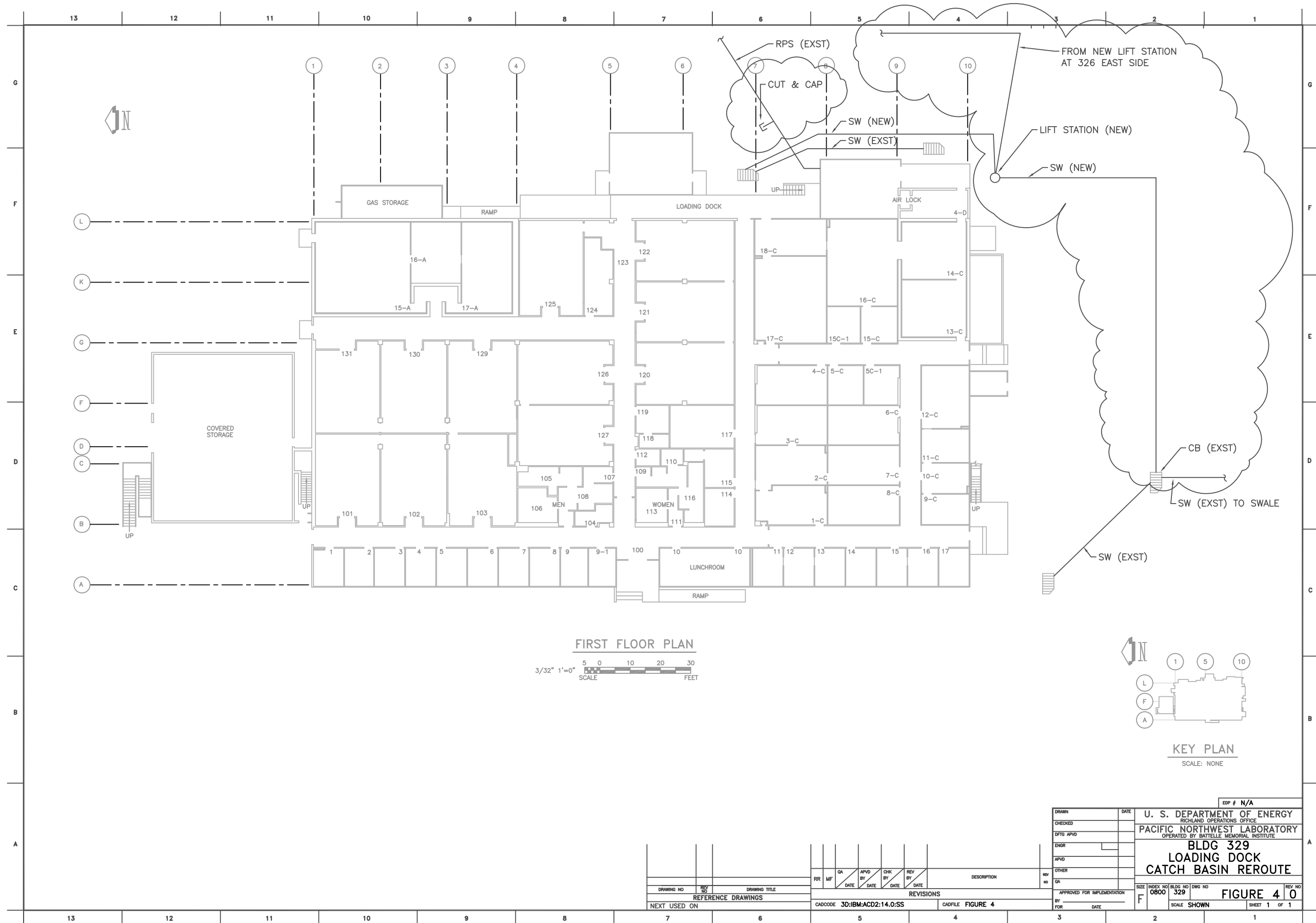


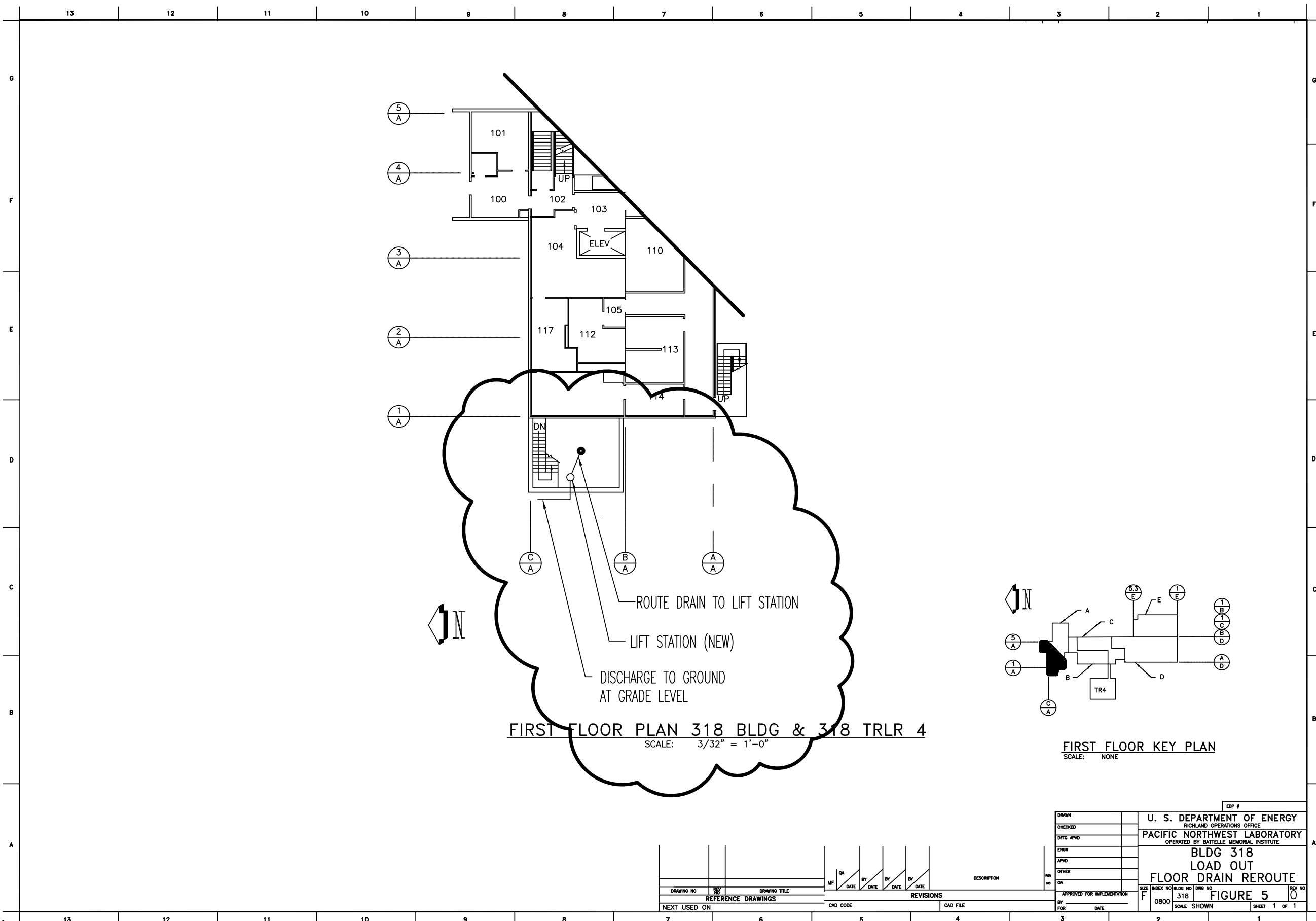


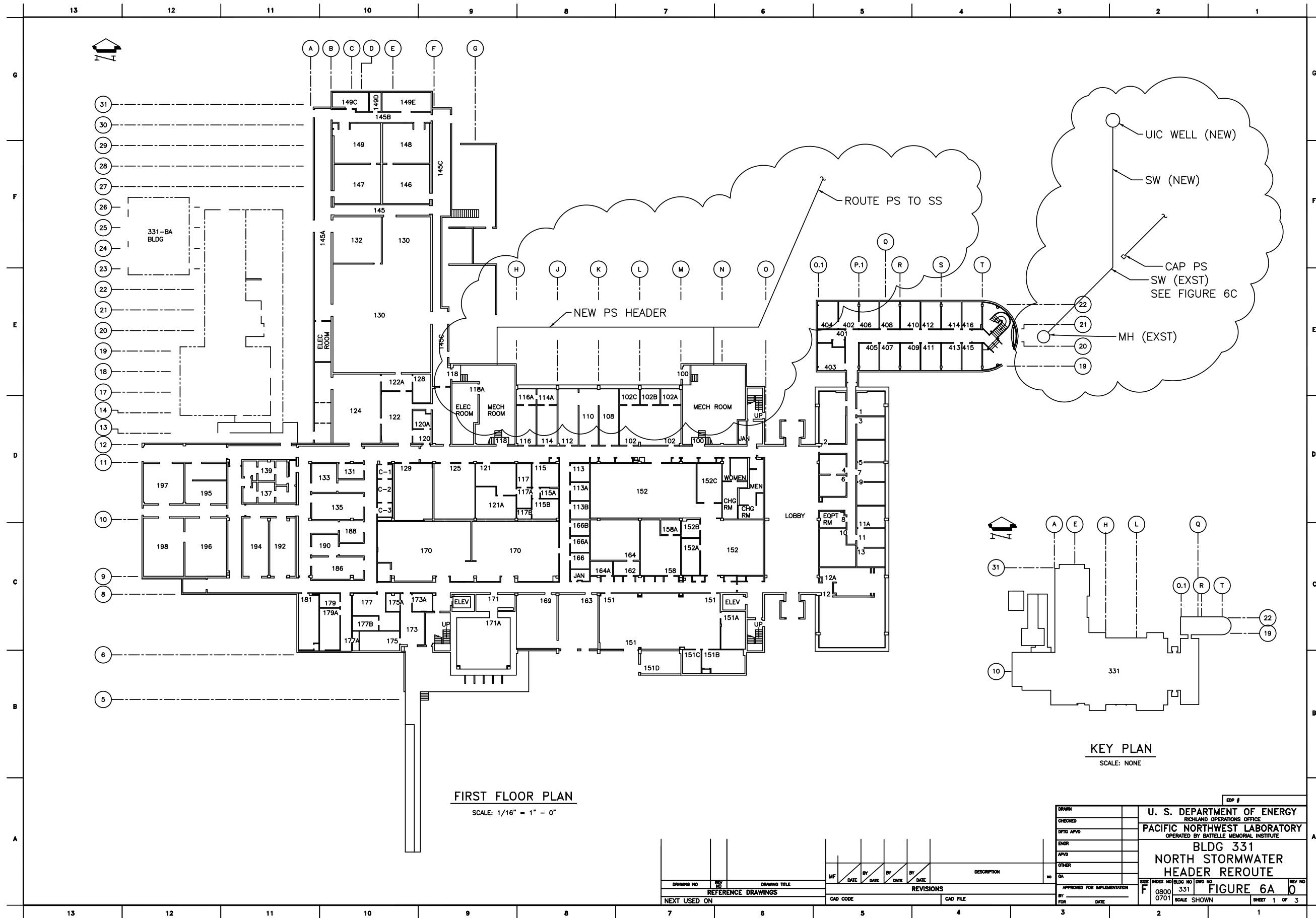




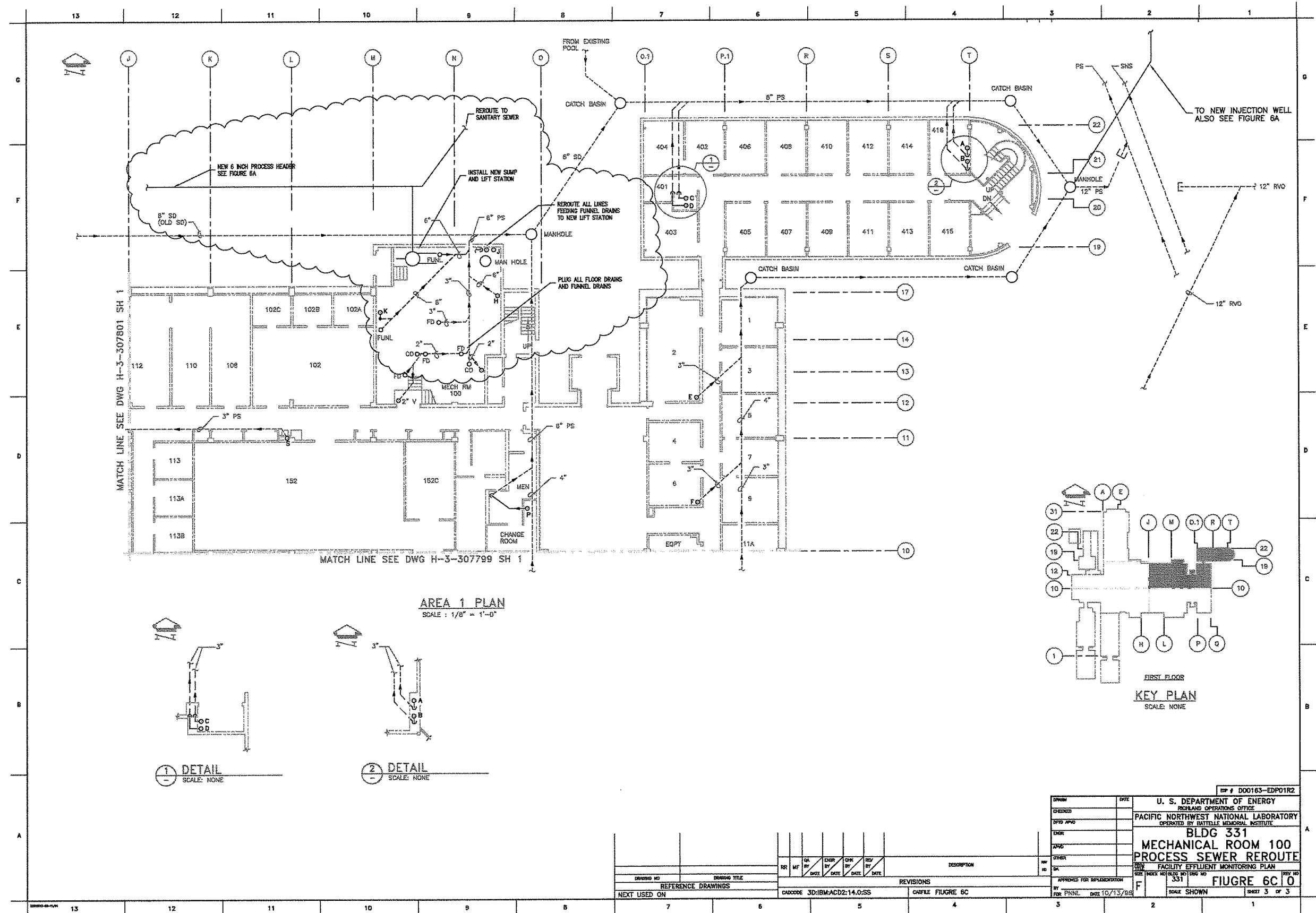


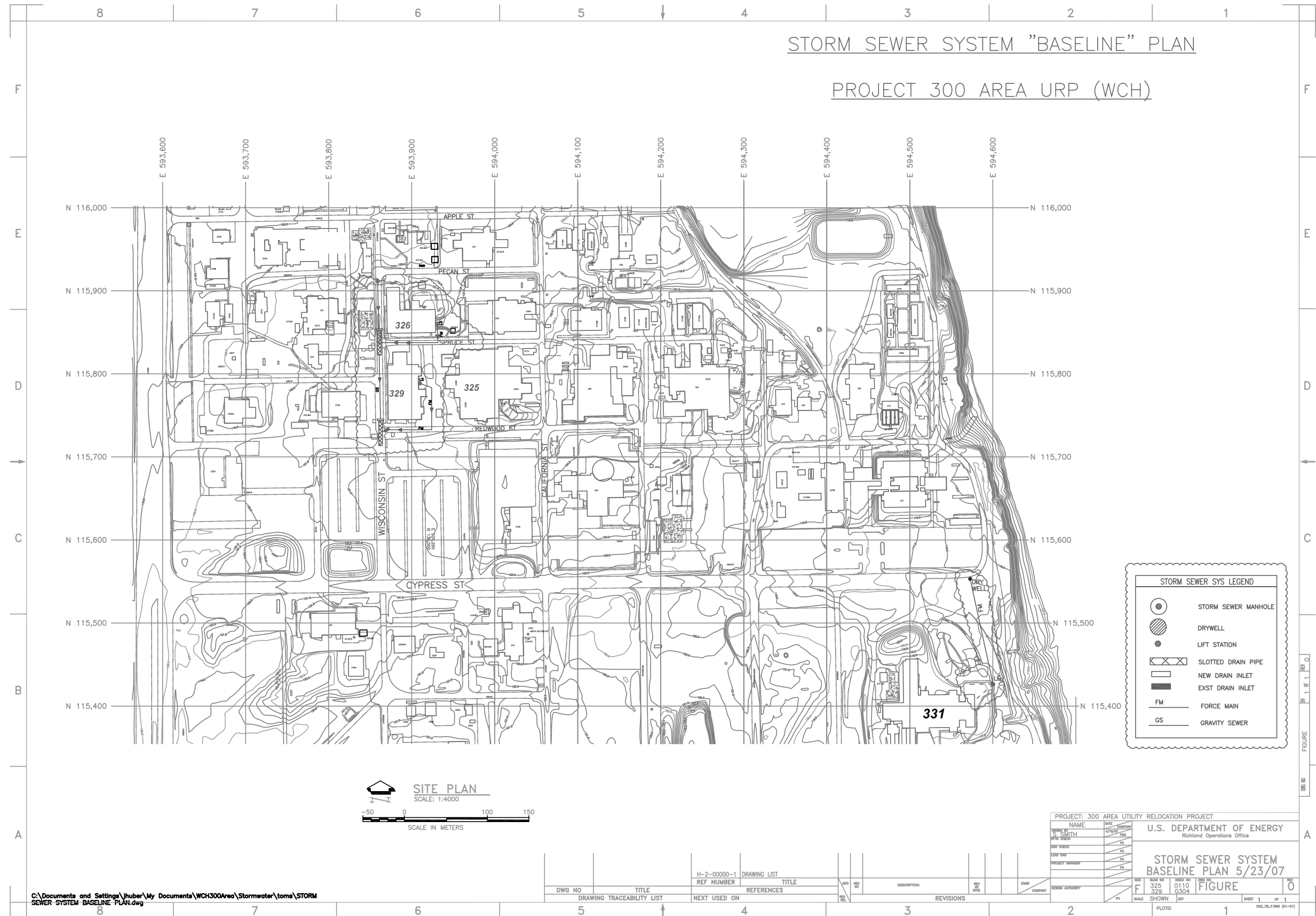












**APPENDIX K**  
**300 AREA INFORMATION TECHNOLOGY DECISION MEETING**





# **WCH** Washington Closure Hanford *Meeting Minutes*

134347

**SUBJECT** SUMMARY OF DECISION MEETING FOR INFORMATION TECHNOLOGY OPTIONS  
300 AREA UTILITY RELOCATION PROJECT

**TO** Distribution

**FROM** D.J. McBride 

**DATE** June 25, 2007

**ATTENDEES**

J. W. Bixler J2-45, w/a  
K. Butz H7-22, w/a  
S. E. Dieterle L1-04, w/a  
R. Gerck J2-18, w/a  
P. A. George K7-53, w/a  
G. M. MacFarlan L6-06, w/a  
D. J. McBride H4-15, w/a  
D.L. Plung H4-10, w/a  
D. J. Ortiz A3-04, w/a  
J. Turner K9-42, w/a

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Attendees  
S. I. Bennion H7-21, w/a  
S. T. Burnum A3-04, w/a  
S. R. Cassidy J2-45, w/a  
R. G. Egge X5-50, w/a  
G. A. Gosney H4-16, w/a  
R. F. Guercia A3-04, w/a  
C. MacDonald J2-45, w/a  
D. J. Tollefson E6-29, w/a  
D. M. Yasek L1-07, w/a  
Document Control H4-11

On May 1, 2007, a decision meeting was held to review and rank the two options for the Information Technology (IT) system for facilities retained "long term" and the two options for interim facilities as part of the 300 Area Utility Relocation Project. The IT Sub Team led a discussion with the Project Core team on the pros and cons of each option. In Attachment 1, the options are summarized and key differences highlighted.

Due to the relative simplicity of the possible options, it was decided that the preferred options would be chosen through open discussion among the Project Core team with support from the IT Sub Team. Criteria discussed included, but were not limited to: 1) Does the option meet all the Functional Requirements, 2) Does the option present any outstanding issues with Regulatory Agencies, 3) Does the option meet scheduling deadlines, and 4) Does the option cost fall within reasonable and defensible limits.

The resulting decisions concerning the IT options were consistent with the recommendations made by the IT Sub Team, namely:

Based on the functional requirements and the information contained within this options document (Attachment 1), the IT Sub team recommended the following options be taken to address IT infrastructure rerouting requirements in the 300 Area as a result of D4 and field remediation activities associated with Buildings 309 and 3506C at an estimated cost of approximately \$545K. Factoring in contingency, a

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Page 2

high-end total cost estimate is \$655k.

- ✓ Install new optical fiber cabling as the recommended long term option for the retained PNNL facilities (318, 325, 331 & 350) (note this includes \$5k for 622R fiber reroute which may be covered by existing River Corridor Closure scope). Option L1
- ✓ Install new optical fiber cabling as the recommended option for the interim PNNL facilities (320, 326 and 329). Install new optical fiber cabling between Buildings 339A to 3790 for the retained PHMC facility. Option I1
- ✓ Reuse existing optical fiber cabling from 350 to the trailers. Plus deploy wireless network to provide interconnections between the trailers. Option M2

Attachments:

1. 300 Area Utility Relocation Project – IT Options Study
2. Cost Estimate Summary IT Options

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Attachment 1  
**300 Area Utility Relocation Project**  
**IT Options Study**  
Prepared by IT Sub Team  
05/08/2007

### **Executive Summary**

Based on the functional requirements and the information contained within this options document, the IT Sub team recommends the following options be taken to address IT infrastructure rerouting requirements in the 300 Area as a result of D4 and field remediation activities associated with Buildings 309 and 3506C at an estimated cost of approximately \$545K. Factoring in contingency, a high-end total cost estimate is \$655k.

- ✓ Install new optical fiber cabling as the recommended long term option for the retained PNNL facilities (318, 325, 331 & 350) (note this includes \$5k for 622R fiber reroute which may be covered by existing River Corridor Closure scope).  
Option L1
- ✓ Install new optical fiber cabling as the recommended option for the interim PNNL facilities (320, 326 and 329). Install new optical fiber cabling between Buildings 339A to 3790 for the retained PHMC facility. Option I1
- ✓ Reuse existing optical fiber cabling from 350 to the trailers. Plus deploy wireless network to provide interconnections between the trailers. Option M2

#### **1.1 Introduction**

The majority of the existing IT and telecommunications cabling that supports PNNL activities in the 300 Area is served out of Building 3506C (a.k.a. "Bundy Hut") and/or through the fiber optic and copper cables that are routed along New Mexico Avenue in the vicinity of Building 309. The associated infrastructure and cable routes are expected to be impacted by the D4 and Field Remediation activities in and around 309 and underlying waste sites and will require rerouting. The waste sites are scheduled for remediation starting in 2009.

Currently, optical fiber connectivity to the PNNL staff in the long term facilities, (318, 325, 331 and 350) is provided through DOE owned, FH/LMSI managed infrastructure, centered in 3506C. This will be impacted by the D4 activities around 309, and alternative configurations need to be considered to meet the long-term needs of the facilities.

The 3760, 323, 3730, 3718P, 336 and 338 Buildings shall remain on existing optical fiber

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and voice services until the demolition of these buildings, as it is assumed that the services provided by or through 3506C and its corresponding cabling routes will outlast these facilities. If any acceleration of the planned D4 or remediation activities around 309 and 3506C were to occur this plan would be invalidated.

Rerouted fiber optic connections are needed to 320, 326 and 329 as these are scheduled for occupancy beyond October 2009. It is proposed that telephone services in these buildings remain on the Hanford IVDTS service as the copper cabling feeding these buildings is not impacted by the remediation activities per FH/LMSI.

In addition there are several modular offices (trailers) housing Johnson Controls staff (MO262 and MO263) and PNNL BOA contractors (MO675, MO676 and MO677) which are impacted by D4 and remediation activities associated with 309.

The continued use of 3790 to support PHMC activities will require a fiber optic cable reroute due to D4 and remediation activities associated with 309.

The IT sub-team has broken the scope of work into three main categories:

- Long term PNNL/PHMC facilities
- Interim PNNL/PHMC facilities (scheduled for turnover by 2011)
- Modular offices (JCI and American Electric)

### **1.2 Long Term PNNL/PHMC Facilities Options – Summary**

This section is concerned with providing long term optical fiber/copper connectivity to the following facilities:

- ✓ PNNL Facilities 318, 325, 331, 350 and 622R buildings, plus their associated boiler annexes and outbuildings. (includes connections to ISB2 and Math Bldg)
- ✓ PHMC Facilities – 339, 3220, 3507, and 3709 A&B

PNNL's Information Technology (IT) requirement to support voice and data services to the 325, 318, 350 and 331 Buildings is to do so on PNNL-owned structured cabling network and voice / data switches independent of the Hanford site utilities which will be accomplished as a result of the rerouting activity.

The existing optical fiber connection from 3506C to 622R needs to be rerouted to originate from ISB2 to remove any dependency on the 300 Area infrastructure. This will only involve splicing the existing cabling in the vicinity of ISB2 and is not anticipated to cost more than \$5k (this activity may be funded within existing River Corridor Closure scope).

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The copper cabling to the long term PNNL facilities will be unaffected, except for 331. However, if 3506C remains in place up to September 2009, it will be possible to provide voice services over the newly provided optical fiber cabling identified in Option L1, assuming that it is installed and fully functional by March 2009. If 3506C or 309 is subject to D4 activities prior to September 2009, additional mitigations will need to be implemented in support of 331.

No additional work is anticipated to be required to maintain the long term connectivity for the remaining PHMC facilities – 339A, 3220, and 3709 A&B. IT services to all PHMC long term facilities are expected to not be impacted by D4 and remediation activities assuming that current remediation processes and plans remain consistent. Hence, no cost estimate is identified in the options. There is also no additional infrastructure costs anticipated to consider 3790 a long term use structure other than for the fiber reroute included in the Interim Option I1

Attachment 2

Option	Description	Est. Cost	Pros	Cons
L1	Install new optical fiber for PNNL facilities, except 622R. Use existing cabling for PHMC facilities with exception of fiber route to 3790. – Per functional requirements. The cable to 622R will need to be re-routed to ISB2.	<p>\$345k plus cost to reroute existing connection to 622R (PNNL estimates 622R connection will cost \$5k) \$350k total.</p> <p>Note 622R connection may be covered in existing RCC scope</p>	<ul style="list-style-type: none"> <li>✓ Allows for new infrastructure that can be installed away from D4 locations</li> <li>✓ Lowest risk installation, does not interfere with existing operational infrastructure</li> <li>✓ Work can be completed during business hours</li> <li>✓ Schedule flexibility - work can be completed anytime - this FY through FY09</li> <li>✓ Supports retained facilities planned life of 20 years or more, i.e., meets lifecycle requirements</li> <li>✓ Consistent capability and quantities as rest of PNNL campus.</li> <li>✓ Presents best overall value to the DOE – investing in new infrastructure rather than reworking old infrastructure in support of PNNL’s science mission in the 300 area</li> </ul>	<ul style="list-style-type: none"> <li>✗ May need to balance multiple funding sources to address long term scope</li> </ul>
L2	Reuse existing optical fiber cabling that will be displaced by the 309 demolition – (Based on Oct. 2006 WCH Utilities Approach and Strategy	<p>\$560k (From the October 2006 WCH Utilities Approach and Strategy document)</p>	<ul style="list-style-type: none"> <li>✓ No major pros identified yet</li> </ul>	<ul style="list-style-type: none"> <li>✗ Higher risk - work will need to be completed on live infrastructure – potential operations and program interruptions and impacts</li> <li>✗ Limited contingencies if a cable or ductbank is damaged and cannot easily be reworked</li> <li>✗ Work will need to be completed outside of extended business hours (M-F 06:00-18:00)</li> <li>✗ The remaining reliable life of existing cable is uncertain in that it is 13 years</li> </ul>

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	document)			old and industry standard lifecycle is 15 – 20 years
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**The IT sub-team recommends Option L1 – Install new optical fiber as the long term option for the retained PNNL facilities.**



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#### Option L1 Cost Assumptions

- Assumes that the existing cabling to PHMC facilities is undisturbed by the 309 D4 activities with exception of the fiber route to 3790, this has been confirmed by FH/LMSI. The 3790 reroute is covered in option I1
- Assumes contractor competitive bid material and standard labor costs (non Davis Bacon)
- Does not include Project Management costs, it is assumed this will either be managed by WCH or PNNL staff and costs will be covered by those organizations
- Assumes that identified conduits are available and usable (though it should be noted that the schedule can be built to allow for minor conduit repairs as it is not operational infrastructure.) For the run along Stevens Drive, there are no costs included for conduit build out. If a new electrical ductbank is installed for power, it is recommended that additional communications conduits be added.
- The run from ISB2-318 along GW Way extension will utilize available conduit but could be aerial until Cypress Street where it will enter vaults if an unanticipated issue arises with the existing conduit, this has been verified by FH/LMSI
- This does not include any costs for the 331 outbuildings (C, D, G and H)
- Assume that the boiler annexes have copper communications cabling running to their host buildings (to support JCI requirements)
- Active (powered) networking and telecommunications equipment will be provided by PNNL. This is estimated to cost approximately \$300k.

#### Option L2 Cost Assumptions

Option 2 cost estimate of \$560k was prepared as a part of the October 2006 WCH Utilities Approach and Strategy document. (Total cost was \$670k, \$560 for Long Term and \$110k for Interim, which includes \$30k for 3790 that was not in the original scope)

### **1.3 Interim/Short Term PNNL/PHMC Facilities Options – Summary**

This section is concerned with providing optical fiber/copper connectivity to the following interim facilities that are scheduled to outlive the infrastructure provided through or around Buildings 309 and 3506C (Bundy Hut):

- ✓ PNNL Facilities 320, 326 and 329
- ✓ PHMC Facilities –3790

Option	Description	Est. Cost	Pros	Cons
I1	<p>Install new optical fiber for PNNL facilities, as follows:</p> <ul style="list-style-type: none"> <li>• 318 to 320</li> <li>• 325 to 326</li> <li>• 325 to 329</li> </ul> <p>Install new optical fiber cabling for PHMC facility:</p> <ul style="list-style-type: none"> <li>• 339A-3790</li> </ul>	<p>\$145k (\$115k for 320, 326 and 329 and \$30k for 3790)</p> <p>(Note that there would be no incremental mitigation cost if 3790's lifetime is extended beyond 2011)</p>	<ul style="list-style-type: none"> <li>✓ Allows for new infrastructure that can be installed away from D4 locations</li> <li>✓ Lowest risk installation, does not interfere with existing operational infrastructure</li> <li>✓ Work can be completed during business hours</li> <li>✓ Schedule flexibility - work can be completed anytime - this FY through FY09</li> </ul>	<ul style="list-style-type: none"> <li>✗ No major cons identified yet</li> </ul>
I2	<p>Reuse existing optical fiber cabling that will be displaced by the 309 demolition. Requires new cabling from 318 to 320/350 and rework existing cabling running n north side of 325 that serves 326 &amp; 329.</p>	<p>\$110k (From the October 2006 WCH Utilities Approach and Strategy document plus an incremental \$30k for 3790 mitigation that was not in the original scope)</p>	<ul style="list-style-type: none"> <li>✓ No major Pros identified yet</li> </ul>	<ul style="list-style-type: none"> <li>✗ Higher risk - work will need to be completed on live infrastructure—potential operations and program interruptions and impacts</li> <li>✗ Limited contingencies if a cable or ductbank is damaged and cannot easily be reworked</li> <li>✗ Work will need to be completed outside of extended business hours (M-F 06:00-18:00)</li> </ul>

**The IT sub-team recommends Option I1. Option I2 cost estimate is less, however, schedule and scope/performance risks are much greater such that Option I1 recommended.**

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Option I1 Cost Assumptions

- Assumes contractor competitive bid material and standard labor costs (non Davis Bacon)
- Does not include Project Management costs, it is assumed this will either be managed by WCH or PNNL staff and cost covered by those organizations
- Assumes that conduits are available and usable. (though it should be noted that the schedule can be built to allow for minor conduit repairs as it is not operational infrastructure)
- Assume that the boiler annexes have copper communications cabling running to their host buildings (to support JCI requirements)
- Assumes L1 scope has been completed.

Option I2 Cost Assumptions

- LMSI ROM estimates provided for the new cable and rework scope.
- Reuse existing fiber scope is dependent on demolition efforts and is more complex

**1.4 Modular Offices (JCI and PNNL contractors) Options – Summary**

This section is concerned with providing optical fiber/copper connectivity to the following interim facilities that are scheduled to outlive 3506C (Bundy Hut):

- ✓ MO262, MO263 (JCI)
- ✓ MO675, MO676 and MO677 (American Electric / Thompson Mechanical).

Option	Description	Est. Cost	Pros	Cons
M1	Maintain existing telephone/data services	Not identified in light of D4 impacts.	<ul style="list-style-type: none"> <li>✓ No major pros identified yet</li> </ul>	<ul style="list-style-type: none"> <li>✗ The copper cabling supporting these trailers will be impacted by the D4 activities around 3506C.</li> <li>✗ Inconsistent with the support model for PNNL contractors</li> <li>✗ Would require optical fiber cabling to be installed in order for PNNL network connectivity to be provided.</li> </ul>
M2	Reuse existing optical fiber cabling that runs from 350 to 2 of the trailers. Wireless links for the remaining trailers that require connectivity.	\$50k (PNNL rough ROM estimate)	<ul style="list-style-type: none"> <li>✓ Lowest cost option</li> <li>✓ Consistent with the Site services architecture for PNNL to service it's supporting organizations.</li> </ul>	<ul style="list-style-type: none"> <li>✗ Will depend on PNNL being able to provide telephone service over optical fiber cabling</li> </ul>

**The IT sub-team recommends Option M2 – Reuse existing optical fiber cabling from 350 to the trailers. Plus deploy wireless network to provide interconnections between the trailers.**

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Option M1 Cost Assumptions

- Assumption of the copper cabling running to the modular offices was considered but dismissed in that it is impacted by D4 activities

Option M2 Cost Assumptions

- Assumes there is copper cabling interconnecting the trailers that will allow for telephone service to be provided
- PNNL rough ROM estimate

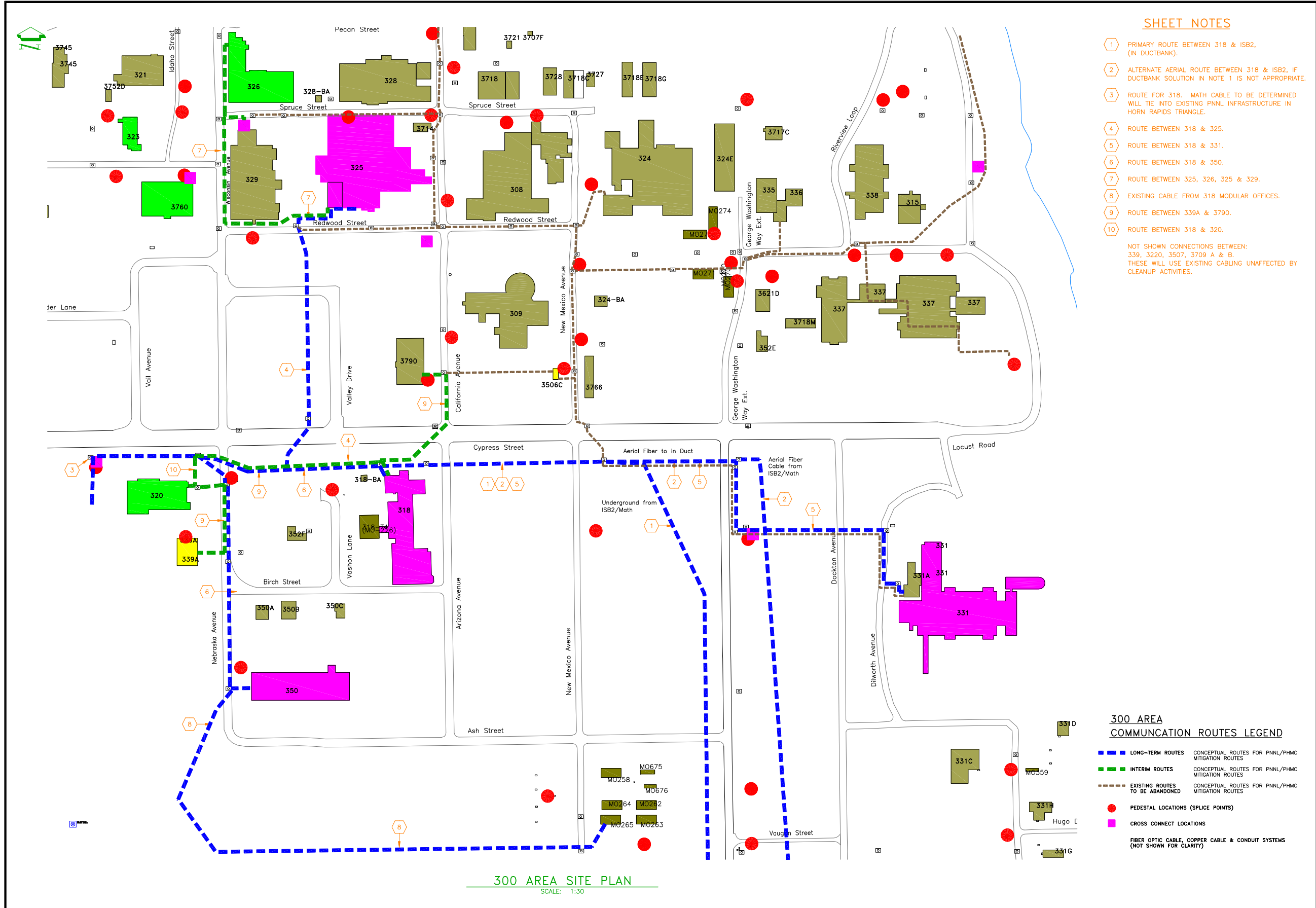




**APPENDIX L**  
**300 AREA INFORMATION TECHNOLOGY CONCEPTUAL DESIGN**







**SHEET NOTES**

- 1 PRIMARY ROUTE BETWEEN 318 & ISB2, (IN DUCTBANK).
  - 2 ALTERNATE AERIAL ROUTE BETWEEN 318 & ISB2, IF DUCTBANK SOLUTION IN NOTE 1 IS NOT APPROPRIATE.
  - 3 ROUTE FOR 318. MATH CABLE TO BE DETERMINED WILL TIE INTO EXISTING PNNL INFRASTRUCTURE IN HORN RAPIDS TRIANGLE.
  - 4 ROUTE BETWEEN 318 & 325.
  - 5 ROUTE BETWEEN 318 & 331.
  - 6 ROUTE BETWEEN 318 & 350.
  - 7 ROUTE BETWEEN 325, 326, 325 & 329.
  - 8 EXISTING CABLE FROM 318 MODULAR OFFICES.
  - 9 ROUTE BETWEEN 339A & 3790.
  - 10 ROUTE BETWEEN 318 & 320.
- NOT SHOWN CONNECTIONS BETWEEN:  
339, 3220, 3507, 3709 A & B.  
THESE WILL USE EXISTING CABLING UNAFFECTED BY CLEANUP ACTIVITIES.

**300 AREA COMMUNICATION ROUTES LEGEND**

- LONG-TERM ROUTES CONCEPTUAL ROUTES FOR PNNL/PHMC MITIGATION ROUTES
- INTERIM ROUTES CONCEPTUAL ROUTES FOR PNNL/PHMC MITIGATION ROUTES
- EXISTING ROUTES TO BE ABANDONED CONCEPTUAL ROUTES FOR PNNL/PHMC MITIGATION ROUTES
- PEDESTAL LOCATIONS (SPLICE POINTS)
- CROSS CONNECT LOCATIONS
- FIBER OPTIC CABLE, COPPER CABLE & CONDUIT SYSTEMS (NOT SHOWN FOR CLARITY)

**300 AREA SITE PLAN**  
SCALE: 1:30

**APPENDIX M**  
**FIELD REMEDIATION IMPACT FROM RETAINED FACILITIES**



**McBride, Donald J**

---

**From:** McBride, Donald J  
**Sent:** Thursday, June 28, 2007 10:29 AM  
**To:** Donahoe, Richard L; Carlson, Richard A; MacFarlan, Gary M; Fox, Michael B; Irwin, Gerald L; Dieterle, Steven E; Lee, Miu (Mel)  
**Subject:** Potentially affected waste sites from long-term utilities  
**Importance:** High  
**Attachments:** Affected Geographical Zones and Waste Sites.xls

Rick, Mike--

In response to our discussion, Gary MacFarlan and I reviewed 91 waste sites in the 300 Area to assess the potential for impacts on remediation activities. We reviewed the results with Rich Carlson who concurred with our conclusions.

For each site we considered the baseline (IPB) dates planned for excavation of the sites, as well as the IPB-planned status of surrounding utility systems and facilities. Our assumption was that sites that were baselined for remediation while nearby utilities would have still been active would already be assumed to require temporary rerouting of utilities to support the baseline activities. Sites that were baselined for remediation after nearby utilities would have been deactivated (in the baseline) were considered candidates for impact. We then assessed the potentially impacted sites against the new planned configuration and timeframes under the mitigation plan. Sixteen sites, of which five are pipeline sites, were identified as potentially impacted by the presence of retained utility systems and are highlighted in the attached spreadsheet. Examples of impacts were sites in the proximity of active water, sewer, or electric lines that would require extra care or controls to avoid safety or outage impacts. Pipeline sites were typically impacted by the need to start and stop excavations in multiple areas while performing isolations of portions of the pipelines that would be left in place.

For the sixteen impacted sites, we have requested Mel to input an increased cost and duration of 25% for the excavation phase of the remediation activity.

Thanks--  
Don McBride



Affected  
Geographical Zones ar

**300 Area Geographical Zones and Associated Waste Sites**

Geographical Zone	Site Number	Excavation Start Date	Loadout Completion Date	Confirmatory Sampling Date	Potential Impact	
		(IPB)	(IPB)	(IPB)		
A	331 LSLT1			30 May, 2006		
	331 LSLT2			01 June, 2006		
	331 LSLDF			24 May, 2006		
B	300-32			04 September, 2007		
	618-1	25 October, 2007	12 February, 2008			
	300-109	21 January, 2008	26 February, 2008			
	300-110	25 October, 2007	04 December, 2007			
	300-258	25 January, 2007	06 March, 2007			
	300-259	25 October, 2007	20 December, 2007			
	303-M SA	21 January, 2008	27 February, 2008			
	303-M UOF			15 May, 2006		
	333 ESHWSA	21 January, 2008	26 February, 2008			
	UPR-300-17	21 January, 2008	04 March, 2008			
	UPR-300-46	25 October, 2007	13 December, 2007			
	C	300-16(Partial)	29 October, 2009	09 December, 2009		
		300-28	17 June, 2009	28 July, 2009		
300-40		08 October, 2007	08 November, 2007			
300-43		08 January, 2009	17 February, 2009			
300-48		07 January, 2009	12 February, 2009			
300-219		17 June, 2009	24 August, 2009			
300-224		17 June, 2009	24 August, 2009			
300-249		Included with 304 Bldg				
300-251		03 February, 2009	12 March, 2009			
300-260		03 February, 2009	16 March, 2009			
300-270		18 March, 2009	05 May, 2009			
313 ESSP		08 October, 2007	12 December, 2007			
333 WSTF		01 October, 2009	10 November, 2009			
3712 USSA		01 October, 2009	09 December, 2009			
UPR-300-38		08 October, 2007	29 January, 2008			
UPR-300-39		09 June, 2009	23 July, 2009			
UPR-300-40		17 June, 2009	05 August, 2009			
UPR-300-45	17 June, 2009	05 August, 2009				
D	300-46	01 October, 2008	03 December, 2008			
E	300-16(Partial)	29 October, 2009	09 December, 2009			
	300-24	01 October, 2007	14 November, 2007			
	300-80	03 February, 2009	11 March, 2009			
	300-218	04 October, 2010	03 January, 2011			
	305-B SF	12 March, 2009	06 October, 2009			

**300 Area Geographical Zones and Associated Waste Sites**

<b>Geographical Zone</b>	<b>Site Number</b>	<b>Excavation Start Date (IPB)</b>	<b>Loadout Completion Date (IPB)</b>	<b>Confirmatory Sampling Date (IPB)</b>	<b>Potential Impact</b>
F	300-25	13 September, 2010	02 November, 2010		
	300-93	23 September, 2010	20 January, 2011		
	300-94	23 September, 2010	20 January, 2011		
	300-95	23 September, 2010	20 January, 2011		Located near active retained sanitary sewer and electrical lines
G	300-269	01 October, 2009	23 November, 2009		
H	300-22	01 October, 2009	05 November, 2009		
	300-39	29 February, 2012	03 April, 2012		
	300-255	04 October, 2010	09 November, 2010		Potential for excavation footprint to impact electrical duct bank north of 309
	300-257	04 October, 2010	02 December, 2010		Crosses active sanitary sewer from 331 Building and parallels active sewer and electrical
	309-TW-1	04 October, 2010	29 November, 2010		Potential for excavation footprint to impact electrical duct bank north of 309
	309-TW-2	04 October, 2010	10 November, 2010		Potential for excavation footprint to impact electrical duct bank north of 309
	309-TW-3	04 October, 2010	10 November, 2010		Potential for excavation footprint to impact electrical duct bank north of 309
	309-WS-1	04 October, 2010	28 December, 2010		
	309-WS-2	04 October, 2010	23 November, 2010		
	309-WS-3	04 October, 2010	15 November, 2010		
	UPR-300-5	04 October, 2010	18 November, 2010		
I	300-6	04 October, 2010	01 November, 2010		
	300-123	09 May, 2012	14 June, 2012		
	300-268	17 October, 2011	17 November, 2011		
	300-273	05 July, 2011	10 August, 2011		
	UPR-300-42	05 July, 2011	17 August, 2011		
J	300-11	01 May, 2012	11 June, 2012		
	300-34	01 December, 2010	10 January, 2011		
	300-264	05 January, 2011	07 March, 2011		Proximity to active water mains

### 300 Area Geographical Zones and Associated Waste Sites

Geographical Zone	Site Number	Excavation Start Date (IPB)	Loadout Completion Date (IPB)	Confirmatory Sampling Date (IPB)	Potential Impact
K	307 RB	10 March, 2011	03 May, 2011		
	340 Complex	10 March, 2011	12 May, 2011		
	UPR-300-1	10 March, 2011	02 May, 2011		
	UPR-300-2			10 March, 2011	
L	UPR-300-11	10 March, 2011	27 April, 2011		
	300-263	24 May, 2011	14 July, 2011		
M	316-3	03 October, 2011	17 April, 2012		Active overhead electrical crosses waste site
	300-5	02 May, 2011	09 June, 2011		Located in yard of active fire station, proximity to sanitary sewer and water main
	323 Tank 1	04 May, 2011	14 June, 2011		
	323 Tank 2	04 May, 2011	15 June, 2011		
	323 Tank 3	04 May, 2011	15 June, 2011		
N	323 Tank 4	04 May, 2011	15 June, 2011		
	UPR-300-4	10 July, 2012	16 August, 2012		Potential to impact active water main on Wisconsin Street
	300-33	27 March, 2012	19 June, 2012		
O	300-41	31 May, 2012	09 July, 2012		
	300-256	21 February, 2012	30 May, 2012		
	300-175	14 June, 2012	23 July, 2012		
	325 WTF	15 May, 2012	26 June, 2012		
P	UPR-300-10	16 May, 2012	09 July, 2012		
	UPR-300-12	14 June, 2012	02 August, 2012		
	UPR-300-48	16 May, 2012	09 July, 2012		
Q	300-4	09 May, 2012	14 June, 2012		
Process Sewer	300-2			01 November, 2012	
	300-121	09 May, 2012	13 June, 2012		Proximity to active electrical duct and sanitary sewer
Retention Process Sewer	300-15	25-May-11	16May, 2012		Multiple isolation points and partial excavations
Transfer line 325 to 324	300-214	01 October, 2009	15 May, 2012		Multiple isolation points and partial excavations
300 RLWS	300-265	23 September, 2010	11 November, 2010		Multiple isolation points and partial excavations
300 RRLWS	300-RLWS	04 October, 2010	04 June, 2012		Multiple isolation points and partial excavations
	300-RRLWS	04 October, 2010	03 May, 2012		Multiple isolation points and partial excavations

**Notes:**

Cost and schedule for excavation of highlighted sites is assumed to increase 25% due to presence of retained utility systems



**APPENDIX N**  
**SCENARIO 1 VARIANCE SCHEDULE**



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																																				
										Gantt Chart Area																																				
<b>MARJ Scenario 1_FINAL</b>																																														
<b>100 B/C AR</b>																																														
<b>DE Remedial Design</b>																																														
CAD0101 Fld. Rem.-100 B/C Area Design																																														
CAD0101A	Fld. Rem.-100	199	29AUG05A	23OCT06A	8,996	03OCT05*	28SEP06	19	-13	Fld. Rem.-100 B/C Design																																				
<b>RA Field Remediation</b>																																														
CAA0301 Confirmatory Sampling Site - 126-B-2																																														
CAA0301A	Work	50	05OCT06A	31JAN07A	19,521	02OCT06*	03JAN07	-3	-16	Work Instructions - CS Site - 126-B-2																																				
CAA0301B	Smplg and	25	31JAN07A	31JAN07A	40,126	04JAN07	15FEB07	-15	9	Smplg and Analysis - CS Site - 126-B-2																																				
CAA0301C	RSVP or RTD	63	31JAN07A	22MAR07A	10,137	20FEB07	18JUL07	10	65	RSVP or RTD Report - CS Site - 126-B-2																																				
CAA0302 Confirmatory Sampling Site - 1607-B1																																														
CAA0302A	Work	57	04OCT06A	24JAN07A	19,521	05SEP06*	04DEC06	-17	-27	Work Instructions - CS Site - 1607-B1																																				
CAA0302B	Smplg and	25	26MAR07	07MAY07	25,530	05DEC06	22JAN07	-59	-59	Smplg and Analysis - CS Site - 1607-B1																																				
CAA0302C	RSVP or RTD	77	08MAY07	24SEP07	10,137	23JAN07	20JUN07	-59	-52	RSVP or RTD Report - CS Site - 1607-B1																																				
CAA0307 Confirmatory Sampling Site - 100-B-21																																														
CAA0307A	Work	50	01SEP05A	16FEB06A	45,192	01OCT07*	02JAN08	414	373	Work Instructions - CS Site - 100-B-21																																				
CAA0307B	Smplg and	91	01SEP05A	16FEB06A	144,183	15JAN08	27FEB08	470	404	Smplg and Analysis - CS Site - 100-B-21																																				
CAA0307C	RSVP or RTD	84	01SEP05A	16FEB06A	60,812	28FEB08	28JUL08	495	488	RSVP or RTD Report - CS Site - 100-B-21																																				
CAA0308 Confirmatory Sampling Site - 100-B-20																																														
CAA0308A	Work	50	05JAN06A	13MAR06A	7,532	31AUG05*	30NOV05	-67	-54	Work Instructions - CS Site - 100-B-20																																				
CAA0308B	Smplg and	25	05JAN06A	13MAR06A	25,532	10JAN06	22FEB06	2	-10	Smplg and Analysis - CS Site - 100-B-20																																				
CAA0308C	RSVP or RTD	84	27FEB06A	27SEP06A	10,137	23FEB06	24JUL06	-1	-37	RSVP or RTD Report - CS Site - 100-B-20																																				
CAA0309 Confirmatory Sampling Site - 118-B-8:1																																														
CAA0309A	Work	50	05JAN06A	05JAN06A	7,532	03OCT05*	04JAN06	-50	-1	Work Instructions - CS Site - 118-B-8:1																																				
CAA0309B	Smplg and	25	05JAN06A	05JAN06A	25,532	12JAN06	27FEB06	4	28	Smplg and Analysis - CS Site - 118-B-8:1																																				
CAA0309C	RSVP or RTD	84	03OCT05A	05JAN06A	10,137	28FEB06	26JUL06	79	112	RSVP or RTD Report - CS Site - 118-B-8:1																																				
CAA0310 Confirmatory Sampling Site - 118-C-3:3																																														
CAA0310B	Smplg and	25	03JAN06A	27MAR06A	25,532	17JAN06	01MAR06	8	-14	Smplg and Analysis - CS Site - 118-C-3:3																																				
CAA0310A	Work	50	03JAN06A	28MAR06A	7,532	05OCT05*	09JAN06	-46	-44	Work Instructions - CS Site - 118-C-3:3																																				
CAA0310C	RSVP or RTD	84	27FEB06A	26APR06A	10,137	02MAR06	31JUL06	3	52	RSVP or RTD Report - CS Site - 118-C-3:3																																				
<table border="0"> <tr> <td>Start Date</td> <td>31JAN05</td> <td></td> <td>Early Bar</td> </tr> <tr> <td>Finish Date</td> <td>29AUG13</td> <td></td> <td>Target Bar</td> </tr> <tr> <td>Data Date</td> <td>26MAR07</td> <td></td> <td>Progress Bar</td> </tr> <tr> <td>Run Date</td> <td>30JUN07 10:09</td> <td></td> <td>Critical Activity</td> </tr> </table>											Start Date	31JAN05		Early Bar	Finish Date	29AUG13		Target Bar	Data Date	26MAR07		Progress Bar	Run Date	30JUN07 10:09		Critical Activity	<table border="0"> <tr> <td>MARJ</td> <td>Sheet 1 of 127 30JUN07 10:09</td> </tr> <tr> <td>River Corridor Closure Contract</td> <td></td> </tr> <tr> <td>300 Area Utility Relocation Project</td> <td></td> </tr> <tr> <td>Variance</td> <td></td> </tr> </table>												MARJ	Sheet 1 of 127 30JUN07 10:09	River Corridor Closure Contract		300 Area Utility Relocation Project		Variance	
Start Date	31JAN05		Early Bar																																											
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MARJ	Sheet 1 of 127 30JUN07 10:09																																													
River Corridor Closure Contract																																														
300 Area Utility Relocation Project																																														
Variance																																														
© Primavera Systems, Inc.											<p style="text-align: center;"><b>Appendix N</b></p> <p style="text-align: center;"><b>Scenario 1</b></p>																																			



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
<b>CAB0505 Remediate Waste Site - 128-B-3, Coal Ash, Demo Wst</b>																						
CAB0505B	Loadout - Rem	16	13DEC05A	03JUL06A	134,976	31OCT05	31OCT05	-23	-133	■ Loadout - Rem Wst Site - 128-B-3												
CAB0505A	Excavation	1	31OCT05A	02OCT06A	732,888	03OCT05*	03OCT05	-16	-199	■ Excavation Process - Rem Wst Site - 128-B-3												
CAB0505D	Closeout Smpg	157	09JAN06A	16NOV06A	72,007	13FEB06*	27NOV06	20	3	■ Closeout Smpg - Rem Wst Site - 128-B-3												
CAB0505C	Backfill - Rem	4	18DEC06A	30JAN07A	65,190	28NOV06	04DEC06	-11	-30	■ Backfill - Rem Wst Site - 128-B-3												
CAB0505E	Revegetation -	260	05SEP06A	26FEB07A	6,277	05DEC06	05DEC06	50	-43	■ Revegetation - Rem Wst Site - 128-B-3												
<b>CAB0506 Remediate Waste Site - 132-B-2</b>																						
CAB0506A	Excavation	3	03JAN11*	05JAN11	0	01OCT09*	06OCT09	-247	-247	■ Excavation Process - Rem Wst Site - 132-B-2												
CAB0506B	Loadout - Rem	3	31JAN11	02FEB11	0	29OCT09	03NOV09	-247	-247	■ Loadout - Rem Wst Site - 132-B-2												
CAB0506D	Closeout Smpg	159	03FEB11	15NOV11	0	04NOV09	23AUG10	-247	-247	■ Closeout Smpg - Rem Wst Site - 132-B-2												
CAB0506C	Backfill - Rem	1	16NOV11	16NOV11	0	24AUG10	24AUG10	-247	-247	■ Backfill - Rem Wst Site - 132-B-2												
CAB0506E	Revegetation -	1	17NOV11	17NOV11	0	25AUG10	25AUG10	-247	-247	■ Revegetation - Rem Wst Site - 132-B-2												
<b>CAB0507 Remediate Waste Site - 600-230</b>																						
CAB0507A	Excavation	2	30MAY06A	22JUN06A	1,964	02OCT06*	03OCT06	69	56	■ Excavation Process - Rem Wst Site - 600-230												
CAB0507B	Loadout - Rem	2	30MAY06A	22JUN06A	298	30OCT06	31OCT06	85	72	■ Loadout - Rem Wst Site - 600-230												
CAB0507C	Backfill - Rem	1	30MAY06A	22JUN06A	287	21AUG07	21AUG07	246	232	■ Backfill - Rem Wst Site - 600-230												
CAB0507D	Closeout Smpg	159	30MAY06A	22JUN06A	264	01NOV06	20AUG07	87	231	■ Closeout Smpg - Rem Wst Site - 600-230												
CAB0507E	Revegetation -	205	05SEP07*	11SEP08	23	22AUG07	22AUG07	-7	-211	■ Revegetation - Rem Wst Site - 600-230												
<b>CAB0508 Remediate Waste Site - 1607-B5</b>																						
CAB0508B	Loadout - Rem	11	30APR07	16MAY07	7,306	07NOV06	13NOV06	-93	-100	■ Loadout - Rem Wst Site - 1607-B5												
CAB0508A	Excavation	43	02APR07*	14JUN07	45,312	10OCT06*	17OCT06	-93	-131	■ Excavation Process - Rem Wst Site - 1607-B5												
CAB0508D	Closeout Smpg	57	17MAY07	28AUG07	38,446	14NOV06	30AUG07	-100	2	■ Closeout Smpg - Rem Wst Site - 1607-B5												
CAB0508C	Backfill - Rem	4	29AUG07	05SEP07	9,886	04SEP07	05SEP07	2	0	■ Backfill - Rem Wst Site - 1607-B5												
CAB0508E	Revegetation -	260	06SEP07	23DEC08	1,203	06SEP07	06SEP07	0	-259	■ Revegetation - Rem Wst Site - 1607-B5												
<b>CAB0509 Remediate Waste Site - 100-B-17</b>																						
CAB0509B	Loadout - Rem	11	29OCT07	14NOV07	0	02MAR06	08MAR06	-333	-340	■ Loadout - Rem Wst Site - 100-B-17												
CAB0509A	Excavation	35	01OCT07*	03DEC07	16,795	01FEB06*	08FEB06	-333	-363	■ Excavation Process - Rem Wst Site - 100-B-17												
CAB0509D	Closeout Smpg	57	15NOV07	04MAR08	10,137	09MAR06	20DEC06	-340	-238	■ Closeout Smpg - Rem Wst Site - 100-B-17												
CAB0509C	Backfill - Rem	4	05MAR08	11MAR08	0	21DEC06	27DEC06	-238	-240	■ Backfill - Rem Wst Site - 100-B-17												
CAB0509E	Revegetation -	260	19JUL07	03NOV08	0	28DEC06	28DEC06	-112	-371	■ Revegetation - Rem Wst Site - 100-B-17												
<b>CAB0510 Remediate Waste Site - 100-B-14</b>																						
CAB0510B	Loadout - Rem	47	31JAN06A	16NOV06A	18,330	02JUL12	09JUL12	1,283	1,124	■ Loadout - Rem Wst Site - 100-B-14												
CAB0510C	Backfill - Rem	30	28NOV05A	21DEC06A	3,930,827	25APR13	29APR13	1,480	1,267	■ Backfill - Rem Wst Site - 100-B-14												
CAB0510D	Closeout Smpg	210	03OCT05A	14MAR07A	435,993	10JUL12	24APR13	1,351	1,222	■ Closeout Smpg - Rem Wst Site - 100-B-14												
CAB0510A	Excavation	42	08FEB06A	20MAR07A	204,172	04JUN12*	07JUN12	1,262	1,044	■ Excavation Process - Rem Wst Site - 100-B-14												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year													
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
<b>CAB0517 Remediate Waste Site - 1607-B7</b>																							
CAB0517E	Revegetation -	245	01OCT07*	18DEC08	168	21JUN06	21JUN06	-255	-499														
<b>CAB0518 Remediate Waste Site - 100-B-21</b>																							
CAB0518D	Closeout Smpg	48	06NOV06A	26APR07	19,223	06MAR07	17DEC07	63	128														
CAB0518C	Backfill - Rem	5	30APR07	07MAY07	2,104	18DEC07	09JAN08	128	134														
CAB0518B	Loadout - Rem	11	23APR07	09MAY07	3,653	24JAN07	05MAR07	-49	-38														
CAB0518A	Excavation	35	26MAR07*	23MAY07	20,427	21DEC06*	01FEB07	-49	-62														
CAB0518E	Revegetation -	260	08MAY07	21AUG08	260	10JAN08	15JAN08	134	-123														
<b>CAB0519 Remediate Waste Site - 600-270</b>																							
CAB0519D	Closeout Smpg	60	29AUG05A	14DEC05A	27,232	01FEB06	01FEB06	84	25														
CAB0519C	Backfill - Rem	17	29NOV05A	16JAN06A	24,962	02FEB06	06MAR06	35	27														
CAB0519E	Revegetation -	2	31JAN06A	07FEB06A	10,192	07MAR06	13MAR06	19	18														
CAB0519B	Loadout - Rem	3	15NOV05A	02OCT06A	8,214	28NOV05*	31JAN06	5	-135														
<b>CAB0601 Remediate Burial Ground - 118-B-2</b>																							
CAB0601E	Revegetation -	260	02JAN07A	22FEB07A	6,670	28NOV05*	28DEC05	-217	-230														
<b>CAB0602 Remediate Burial Ground - 118-B-7</b>																							
CAB0602E	Revegetation -	260	04SEP07*	18DEC08	0	28NOV05*	28DEC05	-353	-596														
<b>CAC0501 Remediate Waste Site - 100-B-1</b>																							
CAC0501E	Revegetation -	4	21FEB06A	23FEB06A	1,741	16AUG06	16AUG06	99	97														
CAC0501D	Closeout Smpg	135	29AUG05A	26APR06A	25,194	29SEP05*	18JUL06	18	45														
CAC0501C	Backfill - Rem	16	01DEC05A	20MAR07A	325,422	19JUL06	15AUG06	125	-117														
<b>CAC0502 Remediate Waste Site - 100-C-7</b>																							
CAC0502A	Excavation	62	12JAN06A	17JUL08	1,042,143	27JUN11*	22DEC11	1,090	686														
CAC0502B	Loadout - Rem	4	12JAN06A	17JUL08	646,589	26JUL11	01MAR12	1,106	722														
CAC0502D	Closeout Smpg	57	21JUL08	28OCT08	161,058	05MAR12	13DEC12	722	824														
CAC0502C	Backfill - Rem	45	29OCT08	22JAN09	0	17DEC12	19MAR13	824	829														
CAC0502E	Revegetation -	221	13AUG08	21SEP09	12,057	20MAR13	30APR13	917	720														
<b>CAC0503 Remediate Waste Site - 116-C-3</b>																							
CAC0503A	Excavation	39	12MAR07A	25APR07	591,787	31OCT05*	03NOV05	-269	-292														
CAC0503B	Loadout - Rem	32	09APR07	04JUN07	813,027	30NOV05	06DEC05	-269	-297														
CAC0503D	Closeout Smpg	98	26MAR07	17SEP07	35,164	07DEC05	21SEP06	-257	-196														
CAC0503C	Backfill - Rem	3	18SEP07	20SEP07	101,654	25SEP06	26SEP06	-196	-197														
CAC0503E	Revegetation -	259	24SEP07	12JAN09	2,248	27SEP06	27SEP06	-197	-455														
<b>CAC0505 Remediate Waste Site - 100-C-9</b>																							
CAC0505B	Loadout - Rem	14	04APR06A	20APR06A	32,877	13MAR12	02MAY12	1,186	1,205														
CAC0505A	Excavation	14	04APR06A	20MAR07A	106,204	13FEB12*	27FEB12	1,170	986														







Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year																					
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16										
CAC0602E	Revegetation -	3	05SEP06A	20DEC07	776	11SEP06	11SEP06	3	-256																						
CAC0603 Remediate Burial Ground - 118-B-5																															
CAC0603C	Backfill - Rem	2	17JUL06A	20JUL06A	27,413	29AUG05	30AUG05	-175	-177																						
CAC0603E	Revegetation -	260	04SEP07*	18DEC08	1,034	09JAN06*	06FEB06	-332	-575																						
CAC0604 Remediate Burial Ground - 118-B-4																															
CAC0604C	Backfill - Rem	2	17JUL06A	20JUL06A	17,822	29AUG05	30AUG05	-175	-177																						
CAC0604E	Revegetation -	260	04SEP07*	18DEC08	758	28NOV05*	28DEC05	-353	-596																						
CAC0605 Remediate Burial Ground - 118-C-2																															
CAC0605C	Backfill - Rem	2	17JUL06A	20JUL06A	3,580	29AUG05	30AUG05	-175	-177																						
CAC0605E	Revegetation -	260	04SEP07*	18DEC08	327	28DEC06*	28DEC06	-137	-396																						
CAC0606 Remediate Burial Ground - 118-B-1																															
CAC0606B	Loadout - Rem	203	29AUG05A	07MAY07	352,115	27SEP05	28DEC05	16	-271																						
CAC0606D	Closeout Smpng	245	29AUG05A	02JUL07	11,088	29DEC05	11OCT06	66	-143																						
CAC0606A	Excavation -	136	29AUG05A	23AUG07	4,572,865	29AUG05	28NOV05	0	-348																						
CAC0606C	Backfill - Rem	38	03JUL07	10SEP07	458,556	12OCT06	16OCT06	-143	-179																						
CAC0606E	Revegetation -	260	05SEP06A	20DEC07	23,439	17OCT06	17OCT06	24	-235																						
CAC0607 Remediate Burial Ground - 118-C-1																															
CAC0607A	Excavation -	171	26OCT05A	28SEP06A	3,293,767	07NOV05*	10NOV05	6	-175																						
CAC0607C	Backfill - Rem	25	11DEC06A	20MAR07A	392,489	02OCT06	03OCT06	-38	-90																						
CAC0607D	Closeout Smpng	284	29AUG05A	03MAY07	9,911	14DEC05	28SEP06	59	-118																						
CAC0607B	Loadout - Rem	176	26OCT05A	09MAY07	735,141	07DEC05	13DEC05	22	-280																						
CAC0607E	Revegetation -	260	05SEP06A	20DEC07	12,409	04OCT06	04OCT06	17	-242																						
CAC0608 Remediate Burial Ground - 600-33																															
CAC0608E	Revegetation -	260	04SEP07*	18DEC08	199	27DEC06*	27DEC06	-138	-397																						
CAR Fld. Rem.-100 B/C Non Site Specific Support																															
0041.99906	TPA M-16-45	0		18DEC08*	0		28DEC06*	-396	-396																						
CAR2501 Fld. Rem.-100 B/C Non Site Specific Support																															
CAR2501A5	Fld. Rem.-100	199	02OCT06A	22MAR07A	898,035	01JUN11*	29SEP11	931	905																						
CAR2501A4	Fld. Rem.-100	201	01OCT07	30SEP08	251,036	01OCT07	31JUL08	0	-33																						
CAR2501A7	Fld. Rem.-100	201	01OCT08	01OCT09	2,164,824	03OCT11	01MAY12	599	514																						
<b>100 D AREA</b>																															
<b>DE Remedial Design</b>																															
CBD0101 Fld. Rem.-100D Area Design																															
CBD0101A	31Fld.	218	29AUG05A	28AUG08	253,486	29AUG05	28SEP06	0	-383																						

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16										
<b>DD D4</b>																															
<b>AAB0704 D4 Building - 190DR (See Also WS 100-D-60)</b>																															
AAB0704E	Loadout -	80	29AUG05A	07SEP06A	90,538	03OCT05*	28FEB06	19	-107																						
AAB0704F	Transition/Final	101	26MAR07	20SEP07	91,201	01MAR06	28AUG06	-213	-213																						
<b>AAB0705 D4 Building - MO-200</b>																															
AAB0705A	Plan &	23	24APR06A	26APR06A	2,783	18APR11*	25MAY11	995	1,015																						
AAB0705B	Deact & Decom	37	27APR06A	04MAY06A	0	03MAY11	07JUL11	1,001	1,033																						
AAB0705C	Demolition	9	08MAY06A	11MAY06A	11,700	11JUL11	25JUL11	1,033	1,038																						
AAB0705D	Demolition	14	15MAY06A	18MAY06A	0	26JUL11	17AUG11	1,038	1,048																						
AAB0705E	Loadout -	19	18MAY06A	23MAY06A	0	02AUG11	01SEP11	1,039	1,055																						
AAB0705F	Transition/Final	14	24MAY06A	25MAY06A	1,070	06SEP11	28SEP11	1,055	1,067																						
<b>AAB0708 D4 Building - MO-561</b>																															
AAB0708A	Plan &	23	24APR06A	26APR06A	2,791	18APR11*	25MAY11	995	1,015																						
AAB0708B	Deact & Decom	37	27APR06A	04MAY06A	0	03MAY11	07JUL11	1,001	1,033																						
AAB0708C	Demolition	9	01MAY06A	04MAY06A	12,284	11JUL11	25JUL11	1,037	1,042																						
AAB0708D	Demolition	14	08MAY06A	11MAY06A	0	26JUL11	17AUG11	1,042	1,052																						
AAB0708E	Loadout -	19	15MAY06A	18MAY06A	0	02AUG11	01SEP11	1,042	1,057																						
AAB0708F	Transition/Final	14	22MAY06A	25MAY06A	1,123	06SEP11	28SEP11	1,057	1,067																						
<b>AAB0710 D4 Building - MO-829</b>																															
AAB0710A	Plan &	23	16JAN07A	05APR07	2,959	18APR11*	25MAY11	850	827																						
AAB0710B	Deact & Decom	8	02JUL07*	16JUL07	0	03MAY11	07JUL11	766	795																						
AAB0710C	Demolition	8	17JUL07	30JUL07	12,739	11JUL11	25JUL11	795	796																						
AAB0710D	Demolition	8	31JUL07	13AUG07	0	26JUL11	17AUG11	796	802																						
AAB0710E	Loadout -	16	01AUG07	28AUG07	0	02AUG11	01SEP11	799	802																						
AAB0710F	Transition/Final	16	29AUG07	26SEP07	1,165	06SEP11	28SEP11	802	800																						
<b>AAB1002 D4 Retention Basin - 188D</b>																															
AAB1002A	Plan &	50	05JAN11	04APR11	82,778	06JAN11	05APR11	1	1																						
AAB1002B	Deact & Decom	80	09FEB11	30JUN11	1,728	10FEB11	05JUL11	1	1																						
AAB1002C	Demolition	20	05JUL11	08AUG11	12,241	06JUL11	09AUG11	1	1																						
AAB1002D	Demolition	30	09AUG11	29SEP11	251,790	10AUG11	03OCT11	1	1																						
AAB1002E	Loadout - 188D	40	25AUG11	03NOV11	182,640	29AUG11	07NOV11	1	1																						
AAB1002F	Transition/Final	30	07NOV11	04JAN12	33,754	08NOV11	05JAN12	1	1																						
<b>RA Field Remediation</b>																															
<b>CBA0301 CS Site - 100 D-DR -MiscPipg (100-D-31,100-D-50)</b>																															
CBA0301A	Work	25	31AUG05A	01SEP05A	52,725	29AUG05	11OCT05	-2	21																						

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Gantt Chart																
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16					
CBA0301B	Smplg and	49	07NOV05A	21DEC06A	168,213	12OCT05	12JAN06	-14	-190	Smplg and Analysis - CS Site - 100 DDR - Misc Pi																
CBA0301C	RSVP or RTD	84	31AUG05A	09AUG07	70,946	16JAN06	13JUN06	72	-232	RSVP or RTD Report - CS Site - 100 DDR - Misc Pi																
<b>CBA0302 Confirmatory Sampling Site - 100-D-13</b>																										
CBA0302C	RSVP or RTD	84	29AUG05A	03OCT05A	2,539	29AUG05	31JAN06	0	64	RSVP or RTD Report - CS Site - 100-D-13																
<b>CBA0303 Confirmatory Sampling Site - 100-D-14</b>																										
CBA0303A	Work	50	17OCT05A	01DEC05A	7,532	03OCT05*	04JAN06	-8	16	Work Instructions - CS Site - 100-D-14																
CBA0303B	Smplg and	25	03JAN06A	12JUL07	0	05JAN06	16FEB06	2	-280	Smplg and Analysis - CS Site - 100-D-14																
CBA0303C	RSVP or RTD	84	27FEB06A	12NOV07	10,137	21FEB06	19JUL06	-3	-264	RSVP or RTD Report - CS Site - 100-D-14																
<b>CBA0305 Confirmatory Sampling Site - 100-D-24</b>																										
CBA0305B	Smplg and	25	03NOV05A	17JAN06A	17,268	16NOV05*	05JAN06	7	-6	Smplg and Analysis - CS Site - 100-D-24																
CBA0305C	RSVP or RTD	84	16JAN06A	26SEP06A	10,137	09JAN06	06JUN06	-4	-62	RSVP or RTD Report - CS Site - 100-D-24																
<b>CBA0309 Confirmatory Sampling Site - 100-D-7</b>																										
CBA0309B	Smplg and	25	02NOV05A	19DEC05A	69,651	31OCT05*	14DEC05	-2	-2	Smplg and Analysis - CS Site - 100-D-7																
CBA0309C	RSVP or RTD	84	28NOV05A	16FEB06A	20,270	15DEC05	17MAY06	11	50	RSVP or RTD Report - CS Site - 100-D-7																
<b>CBA0310 Confirmatory Sampling Site - 100-D-8</b>																										
CBA0310B	Smplg and	25	03OCT05A	16FEB06A	69,651	27OCT05*	13DEC05	15	-35	Smplg and Analysis - CS Site - 100-D-8																
CBA0310C	RSVP or RTD	84	16FEB06A	04APR06A	20,270	14DEC05	16MAY06	-34	24	RSVP or RTD Report - CS Site - 100-D-8																
<b>CBA0311 Confirmatory Sampling Site - 100-D-9</b>																										
CBA0311A	Work	50	17OCT05A	08DEC05A	15,065	17OCT05*	18JAN06	0	20	Work Instructions - CS Site - 100-D-9																
CBA0311B	Smplg and	25	03JAN06A	04APR06A	46,796	19JAN06	06MAR06	10	-17	Smplg and Analysis - CS Site - 100-D-9																
CBA0311C	RSVP or RTD	84	20MAR06A	10AUG06A	20,270	07MAR06	02AUG06	-7	-5	RSVP or RTD Report - CS Site - 100-D-9																
<b>CBA0314 Confirmatory Sampling Site - 116-DR-8</b>																										
CBA0314C	RSVP or RTD	84	31AUG05A	03OCT05A	2,539	03OCT05*	07MAR06	17	83	RSVP or RTD Report - CS Site - 116-DR-8																
<b>CBA0316 Confirmatory Sampling Site - 128-D-2</b>																										
CBA0316B	Smplg and	25	25OCT05A	12JAN06A	69,651	19JAN06*	06MAR06	45	28	Smplg and Analysis - CS Site - 128-D-2																
CBA0316C	RSVP or RTD	84	28NOV05A	06MAR06A	20,270	07MAR06	02AUG06	53	84	RSVP or RTD Report - CS Site - 128-D-2																
<b>CBA0318 Confirmatory Sampling Site - 132-D-1</b>																										
CBA0318C	RSVP or RTD	84	08SEP05A	03MAY07	15,294	17JAN06	14JUN06	69	-177	RSVP or RTD Report - CS Site - 132-D-1																
CBA0318A	Work	50	26MAR07	20JUN07	7,532	29AUG05	28NOV05	-312	-312	Work Instructions - CS Site - 132-D-1																
CBA0318B	Smplg and	25	21JUN07	06AUG07	69,651	29NOV05	16JAN06	-312	-312	Smplg and Analysis - CS Site - 132-D-1																
<b>CBA0319 Confirmatory Sampling Site - 132-D-2</b>																										
CBA0319C	RSVP or RTD	84	29AUG05A	12DEC05A	15,294	17JAN06	14JUN06	75	101	RSVP or RTD Report - CS Site - 132-D-2																
CBA0319A	Work	50	29AUG05A	16MAY06A	7,532	29AUG05	28NOV05	0	-93	Work Instructions - CS Site - 132-D-2																
CBA0319B	Smplg and	25	29AUG05A	16MAY06A	69,651	29NOV05	16JAN06	50	-68	Smplg and Analysis - CS Site - 132-D-2																
<b>CBA0320 Confirmatory Sampling Site - 132-D-3</b>																										
CBA0320C	RSVP or RTD	84	08SEP05A	12DEC05A	15,294	17JAN06	14JUN06	69	101	RSVP or RTD Report - CS Site - 132-D-3																

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
CBA0320A	Work	50	08SEP05A	16MAY06A	15,065	29AUG05	28NOV05	-6	-93	■ Work Instructions - CS Site - 132-D-3												
CBA0320B	Smplg and	25	08SEP05A	16MAY06A	46,796	29NOV05	16JAN06	44	-68	■ Smplg and Analysis - CS Site - 132-D-3												
CBA0321 Confirmatory Sampling Site - 132-DR-1																						
CBA0321A	Work	50	03OCT05A	03OCT05A	15,065	29AUG05	28NOV05	-19	30	■ Work Instructions - CS Site - 132-DR-1												
CBA0321B	Smplg and	25	03OCT05A	03OCT05A	46,796	29NOV05	16JAN06	31	55	■ Smplg and Analysis - CS Site - 132-DR-1												
CBA0321C	RSVP or RTD	84	03OCT05A	03OCT05A	20,270	17JAN06	14JUN06	56	139	■ RSVP or RTD Report - CS Site - 132-DR-1												
CBA0322 Confirmatory Sampling Site - 1607-D1																						
CBA0322A	Work	50	17OCT05A	08DEC05A	7,532	31OCT05*	01FEB06	8	28	■ Work Instructions - CS Site - 1607-D1												
CBA0322B	Smplg and	25	29DEC05A	16FEB06A	29,530	02FEB06	20MAR06	19	16	■ Smplg and Analysis - CS Site - 1607-D1												
CBA0322C	RSVP or RTD	84	21FEB06A	13JUN06A	20,270	21MAR06	16AUG06	16	36	■ RSVP or RTD Report - CS Site - 1607-D1												
CBA0323 Confirmatory Sampling Site - 1607-D4																						
CBA0323C	RSVP or RTD	84	29AUG05A	27FEB06A	2,539	29AUG05	31JAN06	0	-14	■ RSVP or RTD Report - CS Site - 1607-D4												
CBA0324 Confirmatory Sampling Site - 1607-D5																						
CBA0324B	Smplg and	1	03OCT05A	29SEP05A	29,530	29AUG05	29AUG05	-19	-18	■ Smplg and Analysis - CS Site - 1607-D5												
CBA0324C	RSVP or RTD	84	12JAN06A	30JAN06A	20,270	29AUG05	31JAN06	-73	1	■ RSVP or RTD Report - CS Site - 1607-D5												
CBA0328 Confirmatory Sampling Site - 100-D-65																						
CBA0328A	Work	50	03OCT05A	08DEC05A	22,596	03OCT05*	04JAN06	0	12	■ Work Instructions - CS Site - 100-D-65												
CBA0328B	Smplg and	25	04JAN06A	29MAR06A	80,594	05JAN06	16FEB06	1	-22	■ Smplg and Analysis - CS Site - 100-D-65												
CBA0328C	RSVP or RTD	84	20MAR06A	26APR06A	30,406	21FEB06	19JUL06	-15	46	■ RSVP or RTD Report - CS Site - 100-D-65												
CBA0329 Confirmatory Sampling Site - 100-D-66																						
CBA0329A	Work	50	03OCT05A	08DEC05A	22,596	17OCT05*	18JAN06	8	20	■ Work Instructions - CS Site - 100-D-66												
CBA0329B	Smplg and	25	05JAN06A	29MAR06A	80,594	19JAN06	06MAR06	8	-14	■ Smplg and Analysis - CS Site - 100-D-66												
CBA0329C	RSVP or RTD	84	20MAR06A	26APR06A	30,406	07MAR06	02AUG06	-7	54	■ RSVP or RTD Report - CS Site - 100-D-66												
CBA0330 Confirmatory Sampling Site - 100-D-67																						
CBA0330A	Work	50	12OCT05A	27DEC05A	15,065	31OCT05*	01FEB06	10	20	■ Work Instructions - CS Site - 100-D-67												
CBA0330B	Smplg and	25	09FEB06A	09FEB06A	55,062	02FEB06	20MAR06	-4	20	■ Smplg and Analysis - CS Site - 100-D-67												
CBA0330C	RSVP or RTD	84	09FEB06A	23FEB06A	20,270	21MAR06	16AUG06	21	97	■ RSVP or RTD Report - CS Site - 100-D-67												
CBA0331 Confirmatory Sampling Site - 100-D-62																						
CBA0331A	Work	50	01OCT07*	02JAN08	15,065	03OCT05*	04JAN06	-398	-398	■ Work Instructions - CS Site - 100-D-62												
CBA0331B	Smplg and	25	03JAN08	14FEB08	55,062	05JAN06	16FEB06	-398	-398	■ Smplg and Analysis - CS Site - 100-D-62												
CBA0331C	RSVP or RTD	84	19FEB08	16JUL08	20,270	21FEB06	19JUL06	-398	-398	■ RSVP or RTD Report - CS Site - 100-D-62												
CBA0332 Confirmatory Sampling Site - 100-D-63																						
CBA0332A	Work	50	01OCT07*	02JAN08	82,852	03OCT05*	04JAN06	-398	-398	■ Work Instructions - CS Site - 100-D-63												
CBA0332B	Smplg and	25	03JAN08	14FEB08	269,834	05JAN06	16FEB06	-398	-398	■ Smplg and Analysis - CS Site - 100-D-63												
CBA0332C	RSVP or RTD	84	19FEB08	16JUL08	111,488	21FEB06	19JUL06	-398	-398	■ RSVP or RTD Report - CS Site - 100-D-63												







Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
<b>CBB0507 Remediate Waste Site - 116-DR-5</b>																						
CBB0507A	Excavation	5	30JUN09	08JUL09	62,984	12JUL07	02AUG07	-393	-385	Excavation Process - Rem Wst Site - 116-DR-5												
CBB0507B	Loadout - Rem	3	29JUL09*	03AUG09	8,252	09AUG07	30AUG07	-393	-383	Loadout - Rem Wst Site - 116-DR-5												
CBB0507D	Closeout Smpg	186	04AUG09	08JUL10	21,712	04SEP07	18JUN08	-383	-410	Closeout Smpg - Rem Wst Site - 116-DR-5												
CBB0507C	Backfill - Rem	5	12JUL10	19JUL10	13,223	24AUG09	31AUG09	-175	-175	Backfill - Rem Wst Site - 116-DR-5												
CBB0507E	Revegetation -	1	24JAN11	24JAN11	726	25JAN11	25JAN11	1	1	Revegetation - Rem Wst Site - 116-DR-5												
<b>CBB0508 Remediate Waste Site - 118-D-6</b>																						
CBB0508A	Excavation	7	09JUL09	21JUL09	95,644	06AUG07	15AUG07	-385	-385	Excavation Process - Rem Wst Site - 118-D-6												
CBB0508B	Loadout - Rem	7	06AUG09	18AUG09	58,449	04SEP07	13SEP07	-385	-385	Loadout - Rem Wst Site - 118-D-6												
CBB0508D	Closeout Smpg	159	19AUG09	07JUN10	27,302	17SEP07	01JUL08	-385	-385	Closeout Smpg - Rem Wst Site - 118-D-6												
CBB0508C	Backfill - Rem	3	13DEC10	15DEC10	201,967	28JAN10	02FEB10	-175	-175	Backfill - Rem Wst Site - 118-D-6												
CBB0508E	Revegetation -	1	02MAR11	02MAR11	1,827	03MAR11	03MAR11	1	1	Revegetation - Rem Wst Site - 118-D-6												
<b>CBB0510 Remediate Waste Site - 116-D-10</b>																						
CBB0510A	Excavation	3	22APR08*	24APR08	34,024	23AUG07	23AUG07	-131	-133	Excavation Process - Rem Wst Site - 116-D-10												
CBB0510B	Loadout - Rem	5	20MAY08	28MAY08	7,306	24SEP07	19FEB08	-131	-56	Loadout - Rem Wst Site - 116-D-10												
CBB0510D	Closeout Smpg	40	29MAY08	07AUG08	38,446	20FEB08	02DEC08	-56	63	Closeout Smpg - Rem Wst Site - 116-D-10												
CBB0510C	Backfill - Rem	40	20JUL10	28SEP10	4,448	01SEP09	10NOV09	-175	-175	Backfill - Rem Wst Site - 116-D-10												
CBB0510E	Revegetation -	1	04JAN11	04JAN11	674	04JAN11	05JAN11	0	1	Revegetation - Rem Wst Site - 116-D-10												
<b>CBB0511 Remediate Waste Site - 130-D-1</b>																						
CBB0511A	Excavation	3	28AUG08*	03SEP08	25,635	27AUG07	29AUG07	-202	-202	Excavation Process - Rem Wst Site - 130-D-1												
CBB0511B	Loadout - Rem	80	29SEP08	24FEB09	3,653	25SEP07	20FEB08	-202	-202	Loadout - Rem Wst Site - 130-D-1												
CBB0511D	Closeout Smpg	40	25FEB09	05MAY09	19,223	21FEB08	03DEC08	-202	-83	Closeout Smpg - Rem Wst Site - 130-D-1												
CBB0511C	Backfill - Rem	40	29SEP10	09DEC10	6,430	11NOV09	27JAN10	-175	-175	Backfill - Rem Wst Site - 130-D-1												
CBB0511E	Revegetation -	10	05JAN11	20JAN11	505	06JAN11	24JAN11	1	1	Revegetation - Rem Wst Site - 130-D-1												
<b>CBB0512 Remediate Waste Site - 628-3</b>																						
CBB0512A	Excavation	39	04FEB10*	14APR10	126,175	05SEP06*	27NOV06	-682	-675	Excavation Process - Rem Wst Site - 628-3												
CBB0512B	Loadout - Rem	111	08MAR10	21SEP10	80,367	03OCT06	28FEB07	-682	-713	Loadout - Rem Wst Site - 628-3												
CBB0512D	Closeout Smpg	62	31AUG10	21DEC10	124,957	01MAR07	12DEC07	-701	-604	Closeout Smpg - Rem Wst Site - 628-3												
CBB0512E	Revegetation -	10	25JAN11	09FEB11	9,134	26JAN11	10FEB11	1	1	Revegetation - Rem Wst Site - 628-3												
CBB0512C	Backfill - Rem	40	27DEC10	08MAR11	59,456	03FEB10	14APR10	-178	-178	Backfill - Rem Wst Site - 628-3												
<b>CBB0513 Remediate Waste Site - 1607-D2:2</b>																						
CBB0513A	Excavation	8	08OCT08*	21OCT08	155,474	28NOV06	22MAR07	-373	-318	Excavation Process - Rem Wst Site - 1607-D2:2												
CBB0513B	Loadout - Rem	11	05NOV08	24NOV08	102,285	28DEC06	21MAY07	-373	-304	Loadout - Rem Wst Site - 1607-D2:2												
CBB0513D	Closeout Smpg	190	25NOV08	05NOV09	65,240	22MAY07	10MAR08	-304	-335	Closeout Smpg - Rem Wst Site - 1607-D2:2												
CBB0513E	Revegetation -	10	10FEB11	01MAR11	4,360	14FEB11	02MAR11	1	1	Revegetation - Rem Wst Site - 1607-D2:2												











Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
<b>CBC0606 Remediate Burial Ground - 118-D-3</b>																						
CBC0606A	Excavation -	131	29APR09*	22DEC09	6,618,840	01OCT09	03JUN10	86	89	Excavation - Rem BG - 118-D-3												
CBC0606B	Loadout - Rem	280	28MAY09	19OCT10	6,207,486	29OCT09	01JUL10	86	-60	Loadout - Rem BG - 118-D-3												
CBC0606C	Backfill - Rem	48	12MAY11	08AUG11	2,046,466	26JAN11	20APR11	-60	-60	Backfill - Rem BG - 118-D-3												
CBC0606D	Closeout Smpg	190	20OCT10	03OCT11	345,004	06JUL10	20APR11	-60	-91	Closeout Smpg - Rem BG - 118-D-3												
CBC0606E	Revegetation -	10	10NOV11	30NOV11	29,686	17OCT11	01NOV11	-15	-15	Revegetation - Rem BG - 118-D-3												
<b>CBC0607 Remediate Burial Ground - 118-D-4</b>																						
CBC0607A	Excavation -	36	22FEB10*	22APR10	4,265,038	01DEC09*	27OCT10	-43	104	Excavation - Rem BG - 118-D-4												
CBC0607B	Loadout - Rem	30	22MAR10	11MAY10	3,744,746	04JAN10	29NOV10	-43	110	Loadout - Rem BG - 118-D-4												
CBC0607D	Closeout Smpg	164	12MAY10	09MAR11	182,478	30NOV10	14SEP11	110	105	Closeout Smpg - Rem BG - 118-D-4												
CBC0607C	Backfill - Rem	65	09AUG11	05DEC11	1,235,104	26MAY11	21SEP11	-40	-40	Backfill - Rem BG - 118-D-4												
CBC0607E	Revegetation -	13	06DEC11	29DEC11	17,916	03NOV11	29NOV11	-16	-16	Revegetation - Rem BG - 118-D-4												
<b>CBC0608 Remediate Burial Ground - 118-D-5</b>																						
CBC0608A	Excavation -	9	05AUG10*	19AUG10	635,296	28OCT10*	16NOV10	47	49	Excavation - Rem BG - 118-D-5												
CBC0608B	Loadout - Rem	8	02SEP10	16SEP10	121,108	30NOV10	16DEC10	47	50	Loadout - Rem BG - 118-D-5												
CBC0608C	Backfill - Rem	4	14FEB11	17FEB11	18,220	12MAY11	18MAY11	50	50	Backfill - Rem BG - 118-D-5												
CBC0608D	Closeout Smpg	190	20SEP10	30AUG11	2,692	20DEC10	04OCT11	50	19	Closeout Smpg - Rem BG - 118-D-5												
CBC0608E	Revegetation -	1	30NOV11	30NOV11	264	01NOV11	01NOV11	-15	-15	Revegetation - Rem BG - 118-D-5												
<b>CBC0609 Remediate Burial Ground - 118-DR-1</b>																						
CBC0609A	Excavation -	3	23AUG10	25AUG10	912,338	17NOV10	30NOV10	49	52	Excavation - Rem BG - 118-DR-1												
CBC0609B	Loadout - Rem	3	21SEP10	23SEP10	386,716	20DEC10	03JAN11	49	52	Loadout - Rem BG - 118-DR-1												
CBC0609C	Backfill - Rem	2	22FEB11	23FEB11	100,980	24MAY11	25MAY11	52	52	Backfill - Rem BG - 118-DR-1												
CBC0609D	Closeout Smpg	195	27SEP10	15SEP11	14,918	04JAN11	13OCT11	52	16	Closeout Smpg - Rem BG - 118-DR-1												
CBC0609E	Revegetation -	1	01DEC11	01DEC11	1,464	02NOV11	02NOV11	-15	-15	Revegetation - Rem BG - 118-DR-1												
<b>CBC0610 Remediate Burial Ground - 126-DR-1</b>																						
CBC0610A	Excavation -	28	01OCT07	15NOV07	1,828,216	08JUN10	05JAN11	536	623	Excavation - Rem BG - 126-DR-1												
CBC0610B	Loadout - Rem	28	29OCT07	18DEC07	1,735,492	07JUL10	02FEB11	536	623	Loadout - Rem BG - 126-DR-1												
CBC0610C	Backfill - Rem	41	27DEC10	09MAR11	469,612	09AUG11	19OCT11	125	125	Backfill - Rem BG - 126-DR-1												
CBC0610D	Closeout Smpg	174	02AUG10*	14JUN11	26,728	03FEB11	15NOV11	101	86	Closeout Smpg - Rem BG - 126-DR-1												
CBC0610E	Revegetation -	8	14DEC11	29DEC11	6,812	15NOV11	30NOV11	-15	-15	Revegetation - Rem BG - 126-DR-1												
<b>CBR25 Fld. Rem.-100 D Non Site Specific Support</b>																						
0041.99904	TPA M-16-46	0	13JUN06A		0	31JUN06*		26	26	TPA M-16-46 Init IRA 100 D												
<b>CBR2501 Fld. Rem.-100 D Non Site Specific Support</b>																						
CBR2501A2	Fld. Rem.-100	199	03OCT05A	03APR07	423,801	03OCT05	28SEP06	0	-100	Fld. Rem.-100 D Non Site Specific Support												
CBR2501A4	Fld. Rem.-100	201	29AUG05A	30SEP08	1,566,435	01OCT07	30SEP08	417	0	Fld. Rem.-100 D Non Site Specific Support												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16								
<b>CCA0318 Confirmatory Sampling Site - 1607-F1</b>																													
CCA0318A	Work	1	01OCT05A	01OCT05A	0	02OCT06	02OCT06	199	200																				
CCA0318B	Smplg and	1	01OCT05A	01OCT05A	0	26OCT06	26OCT06	214	215																				
CCA0318C	RSVP or RTD	1	01OCT05A	01OCT05A	242	30OCT06	30OCT06	215	216																				
<b>CCA0319 Confirmatory Sampling Site - 1607-F3</b>																													
CCA0319A	Work	1	01OCT05A	01OCT05A	0	02OCT06	02OCT06	199	200																				
CCA0319B	Smplg and	1	01OCT05A	01OCT05A	0	31OCT06	31OCT06	216	217																				
CCA0319C	RSVP or RTD	1	01OCT05A	01OCT05A	242	01NOV06	01NOV06	217	218																				
<b>CCA0320 Confirmatory Sampling Site - 1607-F4</b>																													
CCA0320A	Work	1	01OCT05A	01OCT05A	0	02OCT06	02OCT06	199	200																				
CCA0320B	Smplg and	1	01OCT05A	01OCT05A	0	02NOV06	02NOV06	218	219																				
CCA0320C	RSVP or RTD	1	01OCT05A	01OCT05A	242	06NOV06	06NOV06	219	220																				
<b>CCA0321 Confirmatory Sampling Site - 1607-F5</b>																													
CCA0321A	Work	1	01OCT05A	01OCT05A	0	02OCT06*	02OCT06	199	200																				
CCA0321B	Smplg and	1	01OCT05A	01OCT05A	0	07NOV06	07NOV06	220	221																				
CCA0321C	RSVP or RTD	1	01OCT05A	01OCT05A	242	08NOV06	08NOV06	221	222																				
<b>CCA0322 Confirmatory Sampling Site - 1607-F7</b>																													
CCA0322A	Work	1	01OCT05A	01OCT05A	0	02OCT06	02OCT06	199	200																				
CCA0322B	Smplg and	1	01OCT05A	01OCT05A	0	09NOV06	09NOV06	222	223																				
CCA0322C	RSVP or RTD	1	01OCT05A	01OCT05A	242	13NOV06	13NOV06	223	224																				
<b>CCA0323 Confirmatory Sampling Site - 182-F</b>																													
CCA0323A	Work	1	01OCT05A	01OCT05A	0	02OCT06	02OCT06	199	200																				
CCA0323B	Smplg and	1	01OCT05A	01OCT05A	0	14NOV06	14NOV06	224	225																				
CCA0323C	RSVP or RTD	1	01OCT05A	01OCT05A	242	15NOV06	15NOV06	225	226																				
<b>CCA0324 Confirmatory Sampling Site - 100-F-42</b>																													
CCA0324A	Work	50	24APR06A	24APR06A	7,532	03OCT06*	04JAN07	90	139																				
CCA0324B	Smplg and	25	24APR06A	24APR06A	25,532	16NOV06	08JAN07	116	140																				
CCA0324C	RSVP or RTD	84	24APR06A	28SEP06A	10,137	20NOV06	24APR07	117	112																				
<b>CCA0325 Confirmatory Sampling Site - 100-F-43</b>																													
CCA0325A	Work	50	24APR06A	24APR06A	7,532	17OCT06*	18JAN07	98	147																				
CCA0325B	Smplg and	25	24APR06A	24APR06A	25,532	21NOV06	10JAN07	118	142																				
CCA0325C	RSVP or RTD	84	24APR06A	19SEP06A	10,137	11JAN07	11JUN07	143	144																				
<b>CCA0326 Conf Smpl Site - 100-F-44, Miscellaneous Pipelin</b>																													
CCA0326A	Work	73	10OCT06A	14JUN07	93,712	16OCT06*	28FEB07	3	-60																				
CCA0326B	Smplg and	25	01AUG07*	27SEP07	240,313	01AUG07*	13SEP07	0	-8																				





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year																				
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16									
CCA0342C	RSVP or RTD	84	22JUL08	18DEC08	12,012	09APR07	05SEP07	-258	-258																					
CCB0401 Remediate Liquid Waste Site - 100-F-26																														
CCB0401A	Excavation	76	30OCT06A	09MAY07	1,632,461	09AUG10*	02AUG11	753	845																					
CCB0401B	Loadout - Rem	82	10MAY07	04OCT07	200,917	09AUG10	02AUG11	648	763																					
CCB0401D	Closeout	54	08OCT07*	16JAN08	452,098	03AUG11	16JUL12	763	899																					
CCB0401C	Backfill - Rem	8	17JAN08	30JAN08	1,077,187	17JUL12	26MAR13	899	1,029																					
CCB0401E	Revegetation -	8	24MAR08*	03APR08	52,547	27MAR13	30APR13	1,001	1,013																					
CCB0502 Remediate Waste Site - 100-F-38																														
CCB0502A	Excavation	5	15SEP05A	15SEP05A	456	29AUG05	06SEP05	-10	-6																					
CCB0502B	Loadout - Rem	5	15SEP05A	15SEP05A	32	27SEP05	04OCT05	6	10																					
CCB0502D	Closeout Smpg	159	28NOV05A	15MAR06A	101	05OCT05	24JUL06	-28	72																					
CCB0502C	Backfill - Rem	1	19OCT06A	19OCT06A	72	01OCT07*	02OCT07	188	189																					
CCB0502E	Revegetation -	1	15DEC08*	15DEC08	4	31JAN07	31JAN07	-375	-375																					
CCB0503 Remediate Waste Site - 116-F-16																														
CCB0503A	Excavation	26	31AUG05A	08NOV05A	129,549	29AUG05	12OCT05	-2	-15																					
CCB0503B	Loadout - Rem	26	03NOV05A	08NOV05A	9,117	27SEP05	09NOV05	-22	1																					
CCB0503D	Closeout Smpg	159	27DEC05A	19SEP06A	28,783	10NOV05	29AUG06	-22	-11																					
CCB0503C	Backfill - Rem	1	21JUN07*	21JUN07	20,562	28FEB08	13MAR08	136	144																					
CCB0503E	Revegetation -	1	29DEC08	29DEC08	1,032	12MAR07	13MAR07	-360	-359																					
CCB0504 Remediate Waste Site - 116-F-8 (inc WS 100-F-39)																														
CCB0504A	Excavation	29	01SEP05A	28NOV05A	129,549	29AUG05	18OCT05	-3	-21																					
CCB0504B	Loadout - Rem	29	07NOV05A	28NOV05A	9,117	27SEP05	15NOV05	-23	-5																					
CCB0504D	Closeout Smpg	159	09JAN06A	26SEP06A	45,080	16NOV05	05SEP06	-25	-12																					
CCB0504C	Backfill - Rem	4	25JUN08*	01JUL08	20,562	17MAR08	02APR08	-57	-50																					
CCB0504E	Revegetation -	2	30DEC08	31DEC08	1,032	14MAR07	15MAR07	-359	-359																					
CCB0505 Remediate Waste Site - 118-F-8																														
CCB0505A	Excavation	30	14MAR07A	04APR07	72,389	01OCT07*	20NOV07	111	128																					
CCB0505B	Loadout - Rem	7	22MAR07A	05APR07	36,530	29OCT07	07NOV07	122	120																					
CCB0505D	Closeout Smpg	159	09APR07	24SEP07	21,682	08NOV07	26AUG08	120	185																					
CCB0505C	Backfill - Rem	1	25SEP08*	25SEP08	125,513	27AUG08	02SEP08	-16	-14																					
CCB0505E	Revegetation -	1	15DEC08	15DEC08	1,017	03SEP08	03SEP08	-56	-56																					
CCB0506 Remediate Waste Site - 126-F-1																														
CCB0506A	Excavation	49	26MAR07*	19JUN07	0	02OCT06*	02JAN07	-94	-94																					
CCB0506B	Loadout - Rem	49	23APR07	18JUL07	0	30OCT06	30JAN07	-94	-94																					
CCB0506D	Closeout Smpg	159	19JUL07	05MAY08	0	31JAN07	12NOV07	-94	-94																					





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt Chart Area																
<b>CCB0513 Remediate Waste Site - 132-F-1</b>																										
CCB0513B	Loadout - Rem	49	06SEP05A	06SEP05A	2,192	29AUG05	22NOV05	-4	44	Loadout - Rem Wst Site - 132-F-1																
CCB0513D	Closeout Smpg	159	12OCT05A	24AUG06A	24,843	28NOV05	12SEP06	24	9	Closeout Smpg - Rem Wst Site - 132-F-1																
CCB0513C	Backfill - Rem	2	26MAR08*	27MAR08	15,915	13SEP06	25OCT06	-305	-282	Backfill - Rem Wst Site - 132-F-1																
CCB0513E	Revegetation -	1	09DEC08	09DEC08	1,775	06MAY08	14MAY08	-119	-114	Revegetation - Rem Wst Site - 132-F-1																
<b>CCB0514 Remediate Waste Site - 141-C</b>																										
CCB0514B	Loadout - Rem	49	22SEP05A	26SEP05A	10,959	29AUG05	22NOV05	-14	33	Loadout - Rem Wst Site - 141-C																
CCB0514D	Closeout Smpg	159	19OCT05A	24MAY06A	19,223	28NOV05	12SEP06	20	60	Closeout Smpg - Rem Wst Site - 141-C																
CCB0514C	Backfill - Rem	1	31MAR08*	31MAR08	6,960	26OCT06	12DEC06	-282	-258	Backfill - Rem Wst Site - 141-C																
CCB0514E	Revegetation -	1	10DEC08	10DEC08	1,172	15MAY08	27MAY08	-114	-109	Revegetation - Rem Wst Site - 141-C																
<b>CCB0515 Remediate Waste Site - 1607-F3</b>																										
CCB0515A	Excavation	49	27SEP05A	15NOV05A	52,727	29AUG05	22NOV05	-16	4	Excavation Process - Rem Wst Site - 1607-F3																
CCB0515B	Loadout - Rem	49	10NOV05A	12DEC06A	21,918	27SEP05	27DEC05	-26	-193	Loadout - Rem Wst Site - 1607-F3																
CCB0515D	Closeout Smpg	159	17NOV05A	23MAY07	38,446	28DEC05	10OCT06	19	-123	Closeout Smpg - Rem Wst Site - 1607-F3																
CCB0515C	Backfill - Rem	1	20AUG07	20AUG07	14,020	20NOV07	09JAN08	52	76	Backfill - Rem Wst Site - 1607-F3																
CCB0515E	Revegetation -	1	22DEC08	22DEC08	1,629	15FEB07	27FEB07	-370	-365	Revegetation - Rem Wst Site - 1607-F3																
<b>CCB0516 Remediate Waste Site - 1607-F4</b>																										
CCB0516A	Excavation	1	26MAR07	26MAR07	15,942	02OCT06	02JAN07	-94	-46	Excavation Process - Rem Wst Site - 1607-F4																
CCB0516B	Loadout - Rem	1	23APR07	23APR07	3,653	30OCT06	30JAN07	-94	-46	Loadout - Rem Wst Site - 1607-F4																
CCB0516D	Closeout Smpg	106	24APR07	30OCT07	19,223	31JAN07	12NOV07	-46	7	Closeout Smpg - Rem Wst Site - 1607-F4																
CCB0516C	Backfill - Rem	1	15JUL08	15JUL08	1,704	31MAR08	12MAY08	-59	-35	Backfill - Rem Wst Site - 1607-F4																
CCB0516E	Revegetation -	1	09DEC08	09DEC08	260	06MAY08	14MAY08	-119	-114	Revegetation - Rem Wst Site - 1607-F4																
<b>CCB0517 Remediate Waste Site - 1607-F5</b>																										
CCB0517A	Excavation	49	29AUG05A	10NOV05A	38,316	29AUG05	22NOV05	0	6	Excavation Process - Rem Wst Site - 1607-F5																
CCB0517B	Loadout - Rem	49	08NOV05A	10NOV05A	18,265	27SEP05	27DEC05	-24	22	Loadout - Rem Wst Site - 1607-F5																
CCB0517D	Closeout Smpg	159	01DEC05A	19SEP06A	19,223	28DEC05	10OCT06	13	12	Closeout Smpg - Rem Wst Site - 1607-F5																
CCB0517C	Backfill - Rem	1	21AUG08*	21AUG08	6,923	10JAN08	25FEB08	-125	-101	Backfill - Rem Wst Site - 1607-F5																
CCB0517E	Revegetation -	1	23DEC08	23DEC08	750	28FEB07	08MAR07	-365	-360	Revegetation - Rem Wst Site - 1607-F5																
<b>CCB0518 Remediate Waste Site - 1607-F7</b>																										
CCB0518B	Loadout - Rem	49	22SEP05A	22SEP05A	3,653	27SEP05	27DEC05	2	50	Loadout - Rem Wst Site - 1607-F7																
CCB0518A	Excavation	49	27SEP05A	27SEP05A	24,443	29AUG05	22NOV05	-16	32	Excavation Process - Rem Wst Site - 1607-F7																
CCB0518D	Closeout Smpg	159	17OCT05A	30OCT06A	19,223	28DEC05	10OCT06	38	-11	Closeout Smpg - Rem Wst Site - 1607-F7																
CCB0518C	Backfill - Rem	1	18AUG08*	18AUG08	1,822	13DEC06	30JAN07	-335	-311	Backfill - Rem Wst Site - 1607-F7																
CCB0518E	Revegetation -	1	11DEC08	11DEC08	352	28MAY08	05JUN08	-109	-104	Revegetation - Rem Wst Site - 1607-F7																

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year																
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16					
<b>CCC0519 Remediate Waste Site - 182-F</b>																										
CCB0519C	Backfill - Rem	25	08FEB06A	27MAR06A	429,635	31JAN07	15MAR07	195	194	Backfill - Rem Wst Site - 182-F																
CCB0519E	Revegetation -	2	15DEC08	16DEC08	3,240	31JAN07	08FEB07	-375	-371	Revegetation - Rem Wst Site - 182-F																
<b>CCC0501 Remediate Waste Site - 120-F-1</b>																										
CCC0501A	Excavation	5	19JAN06A	09APR07	18,249	29AUG05	06SEP05	-77	-316	Excavation Process - Rem Wst Site - 120-F-1																
CCC0501B	Loadout - Rem	2	10APR07	11APR07	972	27SEP05	04OCT05	-305	-302	Loadout - Rem Wst Site - 120-F-1																
CCC0501D	Closeout Smpg	118	12APR07	08NOV07	3,564	05OCT05	24JUL06	-302	-261	Closeout Smpg - Rem Wst Site - 120-F-1																
CCC0501C	Backfill - Rem	3	12NOV07	14NOV07	880	03OCT07	04OCT07	-22	-23	Backfill - Rem Wst Site - 120-F-1																
CCC0501E	Revegetation -	1	16DEC08	16DEC08	192	01FEB07	01FEB07	-375	-375	Revegetation - Rem Wst Site - 120-F-1																
<b>CCC0502 Remediate Waste Site - 128-F-3</b>																										
CCC0502A	Excavation	6	20SEP05A	17NOV05A	107,950	29AUG05	07SEP05	-12	-41	Excavation Process - Rem Wst Site - 128-F-3																
CCC0502B	Loadout - Rem	6	15NOV05A	17NOV05A	5,750	27SEP05	05OCT05	-28	-25	Loadout - Rem Wst Site - 128-F-3																
CCC0502D	Closeout Smpg	159	28NOV05A	30OCT06A	21,080	06OCT05	25JUL06	-27	-54	Closeout Smpg - Rem Wst Site - 128-F-3																
CCC0502C	Backfill - Rem	1	16JUN08*	16JUN08	5,203	26FEB08	27FEB08	-62	-61	Backfill - Rem Wst Site - 128-F-3																
CCC0502E	Revegetation -	1	17DEC08	17DEC08	1,135	05FEB07	05FEB07	-375	-375	Revegetation - Rem Wst Site - 128-F-3																
<b>CCC0503 Remediate Waste Site - 1607-F1</b>																										
CCC0503A	Excavation	1	26MAR07	26MAR07	26,780	02OCT06	28DEC06	-94	-47	Excavation Process - Rem Wst Site - 1607-F1																
CCC0503B	Loadout - Rem	1	01APR08*	01APR08	3,653	30OCT06	29JAN07	-282	-235	Loadout - Rem Wst Site - 1607-F1																
CCC0503E	Revegetation -	1	02JUL08	02JUL08	505	03APR08	14APR08	-50	-45	Revegetation - Rem Wst Site - 1607-F1																
CCC0503D	Closeout Smpg	105	02APR08	07OCT08	19,223	30JAN07	08NOV07	-235	-181	Closeout Smpg - Rem Wst Site - 1607-F1																
CCC0503C	Backfill - Rem	1	08OCT08	08OCT08	2,595	12NOV07*	27DEC07	-181	-158	Backfill - Rem Wst Site - 1607-F1																
<b>CCC0601 Remediate Burial Ground - 100-F-20</b>																										
CCC0601A	Excavation -	39	05DEC05A	25MAY06A	136,365	01AUG06	09OCT06	131	74	Excavation - Rem BG - 100-F-20																
CCC0601B	Loadout - Rem	39	10APR06A	24AUG06A	75,493	29AUG06	06NOV06	79	40	Loadout - Rem BG - 100-F-20																
CCC0601D	Closeout Smpg	69	15MAY06A	29JAN07A	3,353	07NOV06	23AUG07	98	116	Closeout Smpg - Rem BG - 100-F-20																
CCC0601C	Backfill - Rem	3	21AUG07	23AUG07	75,543	10OCT07	01NOV07	28	39	Backfill - Rem BG - 100-F-20																
CCC0601E	Revegetation -	1	27AUG08*	27AUG08	936	15JUL08	17JUL08	-25	-23	Revegetation - Rem BG - 100-F-20																
<b>CCC0602 Remediate Burial Ground - 118-F-1</b>																										
CCC0602A	Excavation -	176	03JAN06A	07MAY07	3,571,130	01JUN06*	18APR07	84	-10	Excavation - Rem BG - 118-F-1																
CCC0602B	Loadout - Rem	56	28AUG06A	28JUN07	1,625,724	29JUN06	16MAY07	-32	-24	Loadout - Rem BG - 118-F-1																
CCC0602M	Complete	0		28JUN07	0		16MAY07	-24	-24	Complete 118-F-1 Loadout																
CCC0602D	Closeout Smpg	118	02JUL07	04FEB08	71,574	17MAY07	05MAR08	-24	17	Closeout Smpg - Rem BG - 118-F-1																
CCC0602C	Backfill - Rem	10	05FEB08	21FEB08	1,614,509	06MAR08	25JUN08	17	70	Backfill - Rem BG - 118-F-1																
CCC0602E	Revegetation -	4	25FEB08	28FEB08	19,995	26JUN08	21JUL08	70	79	Revegetation - Rem BG - 118-F-1																

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16									
<b>CCC0603 Remediate Burial Ground - 118-F-2</b>																														
CCC0603A	Excavation -	94	16JAN06A	24APR07	1,508,358	01JUN06	15NOV06	77	-85																					
CCC0603B	Loadout - Rem	94	12JUL06A	05JUN07	672,126	29JUN06	18DEC06	-6	-92																					
CCC0603D	Closeout Smpg	112	06JUN07	27DEC07	29,820	19DEC06	03OCT07	-92	-45																					
CCC0603C	Backfill - Rem	6	31DEC07	09JAN08	672,673	04OCT07	05DEC07	-45	-17																					
CCC0603E	Revegetation -	4	10JAN08	16JAN08	8,331	06DEC07	18DEC07	-17	-14																					
<b>CCC0604 Remediate Burial Ground - 118-F-3</b>																														
CCC0604A	Excavation -	15	01FEB06A	27APR06A	187,997	29AUG06	25SEP06	116	82																					
CCC0604B	Loadout - Rem	4	15MAY06A	23MAY06A	69,488	27SEP06	23OCT06	75	84																					
CCC0604D	Closeout Smpg	51	17JUL06A	04JAN07A	3,080	24OCT06	09AUG07	56	121																					
CCC0604C	Backfill - Rem	2	16AUG07*	20AUG07	69,534	01OCT07*	09OCT07	24	28																					
CCC0604E	Revegetation -	1	21AUG08*	21AUG08	861	14JUL08	14JUL08	-23	-23																					
<b>CCC0605 Remediate Burial Ground - 118-F-5</b>																														
CCC0605A	Excavation -	81	28NOV05A	06APR06A	732,044	03JUL06*	27NOV06	119	128																					
CCC0605B	Loadout - Rem	81	28NOV05A	14MAY07	883,162	01AUG06	27DEC06	135	-76																					
CCC0605D	Closeout Smpg	93	15MAY08*	29OCT08	14,099	28DEC06	10OCT07	-277	-211																					
CCC0605C	Backfill - Rem	5	30OCT08	06NOV08	318,094	11OCT07	04DEC07	-211	-187																					
CCC0605E	Revegetation -	4	10NOV08	13NOV08	3,939	05DEC07	13DEC07	-187	-185																					
<b>CCC0606 Remediate Burial Ground - 118-F-6</b>																														
CCC0606A	Excavation -	101	08DEC05A	21JUN07	2,526,823	29MAY07*	27NOV07	292	86																					
CCC0606B	Loadout - Rem	101	10APR06A	21JUN07	1,137,045	26JUN07	27DEC07	243	102																					
CCC0606D	Closeout Smpg	91	25JUN08*	08DEC08	50,441	31DEC07	09OCT08	-99	-31																					
CCC0606C	Backfill - Rem	6	09DEC08	17DEC08	1,137,952	13OCT08	16DEC08	-31	-1																					
CCC0606E	Revegetation -	6	18DEC08	31DEC08	14,093	17DEC08	31DEC08	-1	0																					
<b>CCC0607 Remediate Burial Ground - 118-F-7</b>																														
CCC0607A	Excavation -	5	26JAN06A	04APR06A	44,059	29JUN06	10JUL06	86	53																					
CCC0607B	Loadout - Rem	5	04APR06A	04APR06A	778	31JUL06	07AUG06	65	69																					
CCC0607D	Closeout Smpg	159	05APR06A	02NOV06A	35	08AUG06	23MAY07	69	109																					
CCC0607E	Revegetation -	1	03MAR08	03MAR08	10	22JUL08	22JUL08	79	79																					
CCC0607C	Backfill - Rem	1	18AUG08*	18AUG08	819	26JUN08	30JUN08	-28	-27																					
<b>CCC0608 Remediate Burial Ground - 118-F-9</b>																														
CCC0608A	Excavation -	17	08DEC05A	12DEC05A	72,820	31JUL06	28AUG06	127	142																					
CCC0608B	Loadout - Rem	17	12DEC05A	12DEC05A	12,928	28AUG06	26SEP06	142	158																					
CCC0608D	Closeout Smpg	51	24APR06A	25MAY06A	572	27SEP06	16JUL07	87	226																					
CCC0608C	Backfill - Rem	1	19OCT06A	19OCT06A	12,916	01JUL08	10JUL08	338	343																					

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
CCC0608E	Revegetation -	1	04MAR08	04MAR08	160	23JUL08	23JUL08	79	79	Revegetation - Rem BG - 118-F-9												
CCR2501 Fld. Rem.-100 F Non Site Specific Support																						
CCR2501A5	Fld. Rem.-100	51	01OCT07*	03JAN08	110,955	01JUL10*	30SEP10	550	550	Fld. Rem.-100 F Non Site Specific Support												
CCR2501A6	Fld. Rem.-100	199	01OCT07	25SEP08	625,442	04OCT10	29SEP11	601	601	Fld. Rem.-100 F Non Site Specific Support												
CCR2501A7	Fld. Rem.-100	199	01OCT07	25SEP08	269,855	03OCT11	27SEP12	800	800	Fld. Rem.-100 F Non Site Specific Support												
CCR2501A8	Fld. Rem.-100	116	29SEP08	28APR09	308,981	01OCT12	30APR13	800	800	Fld. Rem.-100 F Non Site Specific Support												
<b>100 H AREA</b>																						
<b>DE Remedial Design</b>																						
CDD0101 Fld. Rem.-100 H Area Design																						
CDD0101A	Fld. Rem.-100	130	26JAN06A	27SEP07	211,020	01FEB06*	28SEP06	3	-199	Fld. Rem.-100 H Area Design												
<b>DD D4</b>																						
AAD0702 D4 Building - MO-229																						
AAD0702A	Plan &	8	12OCT10*	25OCT10	8,030	13JAN11	26JAN11	49	49	Plan & Document - MO-229												
AAD0702B	Deact & Decom	12	18OCT10	04NOV10	0	19JAN11	08FEB11	49	49	Deact & Decom - MO-229												
AAD0702C	Demolition	3	08NOV10	10NOV10	25,765	09FEB11	14FEB11	49	49	Demolition Above Grade - MO-229												
AAD0702D	Demolition	5	11NOV10	18NOV10	0	15FEB11	23FEB11	49	49	Demolition Below Grade - MO-229												
AAD0702E	Loadout -	6	16NOV10	29NOV10	0	17FEB11	01MAR11	49	49	Loadout - MO-229												
AAD0702F	Transition/Final	5	30NOV10	07DEC10	576	03MAR11	10MAR11	50	50	Transition/Final Closure - MO-229												
AAD1001 D4 Retention Basin - 183H WstClearwell(100-H-34)																						
AAD1001B	Deact & Decom	8	16AUG10	26AUG10	0	16AUG10	11OCT10	0	24	Deact & Decom - 183H West Clearwell (incl Wast												
AAD1001C	Demolition	8	07SEP10	20SEP10	13,808	12OCT10	12JAN11	20	61	Demolition Above Grade - 183H West Clearwell												
AAD1001D	Demolition	17	21SEP10	19OCT10	222,773	13JAN11	02FEB11	61	56	Demolition Below Grade - 183H West Clearwell												
AAD1001E	Loadout - 183H	23	23SEP10	02NOV10	206,018	20JAN11	16FEB11	63	56	Loadout - 183H West Clearwell (includes Wast												
AAD1001F	Transition/Final	16	03NOV10	02DEC10	117,567	17FEB11	10MAR11	56	52	Transition/Final Closure - 183H West Clearwell (												
<b>RA Field Remediation</b>																						
CDA0301 Confirmatory Sampling Site - 100-H-28																						
CDA0301A	Work	70	25JAN06A	25APR07	75	05DEC05*	11APR06	-27	-208	Work Instructions - CS Site - 100-H-28 (Costs in												
CDA0301B	Smpg and	34	02APR08*	02JUN08	0	01OCT07*	20NOV07	-100	-104	Smpg and Analysis - CS Site - 100-H-28 (Costs i												
CDA0301C	RSVP or RTD	102	05MAY08	03NOV08	0	31OCT07	29OCT08	-100	-2	RSVP or RTD Report - CS Site - 100-H-28 (Costs i												
CDA0302 Confirmatory Sampling Site - 100-H-10																						
CDA0302A	Work	50	05DEC05A	16FEB06A	12,408	19DEC05	21MAR06	8	17	Work Instructions - CS Site - 100-H-10												
CDA0302B	Smpg and	25	21MAR06A	23MAR06A	17,268	03OCT07	14NOV07	309	331	Smpg and Analysis - CS Site - 100-H-10												
CDA0302C	RSVP or RTD	84	21MAR06A	22JUN06A	10,137	05NOV07	08APR08	327	357	RSVP or RTD Report - CS Site - 100-H-10												
CDA0303 Confirmatory Sampling Site - 100-H-3																						
CDA0303A	Work	50	19DEC05A	14MAR06A	12,333	05JAN06	04APR06	8	12	Work Instructions - CS Site - 100-H-3												
CDA0303B	Smpg and	25	23APR08*	05JUN08	17,268	08OCT07	19NOV07	-108	-108	Smpg and Analysis - CS Site - 100-H-3												













Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year													
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
CDC0602B	Loadout - Rem	5	11MAR10	18MAR10	70,196	12AUG09	03SEP09	-114	-105														
CDC0602D	Closeout Smpg	243	22MAR10	06JUN11	1,060	08SEP09	23JUN10	-105	-189														
CDC0602C	Backfill - Rem	2	27JUN11	28JUN11	16,260	09AUG10	16AUG10	-176	-173														
CDC0602E	Revegetation -	49	25OCT11	25JAN12	316	28SEP10	28SEP10	-215	-263														
<b>CDC0603 Remediate Burial Ground - 118-H-3</b>																							
CDC0603A	Excavation -	16	24FEB10	23MAR10	1,527,904	10AUG09	29SEP09	-107	-94														
CDC0603B	Loadout - Rem	20	24MAR10	27APR10	470,158	08SEP09	27OCT09	-107	-98														
CDC0603D	Closeout Smpg	243	28APR10	14JUL11	20,720	28OCT09	16AUG10	-98	-182														
CDC0603C	Backfill - Rem	4	18JUL11	21JUL11	317,762	17AUG10	01SEP10	-182	-176														
CDC0603E	Revegetation -	49	26JAN12	23APR12	6,156	29SEP10	30SEP10	-263	-310														
<b>CDC0604 Remediate Burial Ground - 118-H-4</b>																							
CDC0604A	Excavation -	2	24MAR10	25MAR10	197,712	30SEP09	13OCT09	-94	-88														
CDC0604B	Loadout - Rem	4	21APR10	27APR10	99,040	28OCT09	10NOV09	-94	-90														
CDC0604D	Closeout Smpg	243	28APR10	14JUL11	2,572	11NOV09	30AUG10	-90	-174														
CDC0604C	Backfill - Rem	1	25JUL11	25JUL11	39,440	02SEP10	08SEP10	-176	-174														
CDC0604E	Revegetation -	49	24APR12	19JUL12	764	04OCT10	04OCT10	-310	-358														
<b>CDC0605 Remediate Burial Ground - 118-H-5</b>																							
CDC0605A	Excavation -	2	29MAR10	30MAR10	1,397,490	14OCT09	20OCT09	-88	-86														
CDC0605B	Loadout - Rem	2	26APR10	27APR10	563,552	11NOV09	17NOV09	-88	-86														
CDC0605D	Closeout Smpg	243	28APR10	14JUL11	1,449,282	18NOV09	07SEP10	-86	-170														
CDC0605C	Backfill - Rem	1	26JUL11	26JUL11	417,926	09SEP10	13SEP10	-174	-173														
CDC0605E	Revegetation -	55	23JUL12	25OCT12	86,204	05OCT10	05OCT10	-358	-412														
<b>CDR25 Fld. Rem.-100 H Non Site Specific Support</b>																							
0041.99918	TPA M-16-50	0	01OCT08*		0	31JUL07*		-235	-235														
0041.99922	TPA M-16-51	0		25OCT12*	0		29DEC10*	-367	-367														
<b>CDR2501 Fld. Rem.-100 H Non Site Specific Support</b>																							
CDR2501A1	Fld. Rem.-100	165	03OCT05A	28SEP06A	67,833	05DEC05*	28SEP06	34	0														
CDR2501A2	Fld. Rem.-100	165	01OCT07*	28JUL08	356,208	02OCT06	27SEP07	-199	-165														
CDR2501A3	Fld. Rem.-100	16	21JUL08*	14AUG08	107,951	01OCT07	30SEP08	-160	25														
CDR2501A4	Fld. Rem.-100	242	21JUL08	01OCT09	1,514,877	01OCT08	30SEP09	41	-1														
CDR2501A6	Fld. Rem.-100	200	01OCT09*	30SEP10	20,972	04OCT10	29DEC10	200	47														
CDR2501A7	Fld. Rem.-100	200	01OCT09	30SEP10	131,172	03JAN12*	27SEP12	447	398														
CDR2501A5	Fld. Rem.-100	401	01OCT08*	04OCT10	1,341,927	01OCT09	30SEP10	200	-1														
CDR2501A8	Fld. Rem.-100	464	04JAN10*	25APR12	98,957	01OCT12*	30APR13	550	202														

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
<b>IS ISS</b>																						
<b>BBA Iss-Interim Safe Storage</b>																						
0041.99935	TPA M-93-18	0		20OCT05A	0		29DEC05*	36	36	◆ TPA M-93-18 Comp ISS 105 H												
<b>BBA2101 Interim Safe Storage - 105-H REACTOR (ISS)</b>																						
BBA2101B	Deact & Decom	4	29AUG05A	29AUG05A	0	31AUG05	07SEP05	2	5	■ Deact & Decom - ISS - 105-H Reactor												
BBA2101C	Demolition	3	29AUG05A	29AUG05A	0	08SEP05	13SEP05	6	8	■ Demolition Above Grade - ISS - 105-H Reactor												
BBA2101D	Demolition	4	29AUG05A	29AUG05A	0	14SEP05	20SEP05	9	12	■ Demolition Below Grade - ISS - 105-H Reactor												
BBA2101E	Loadout - ISS -	5	29AUG05A	29AUG05A	0	06OCT05	13OCT05	22	26	■ Loadout - ISS - 105-H Reactor												
BBA2101F	SSE Design -	5	29AUG05A	29AUG05A	0	01SEP05	12SEP05	3	7	■ SSE Design - ISS - 105-H Reactor												
BBA2101H	Closeout/Transit	8	29AUG05A	01SEP05A	154,677	03JAN06	28SEP06	67	214	■ Closeout/Transition - ISS - 105-H Reactor												
BBA2101G	SSE - ISS -	141	29AUG05A	29JUN06A	1,205,762	17OCT05	29DEC05	27	-101	■ SSE - ISS - 105-H Reactor												
BBA2101A	Plan &	215	29AUG05A	20JUL06A	0	29AUG05	31AUG05	0	-176	■ Plan & Document - ISS - 105-H Reactor												
<b>100 K AREA 100 K Area</b>																						
<b>DE Remedial Design</b>																						
<b>CED0101 Fld. Rem.-100K Area Design</b>																						
CED0101A	Fld. Rem.-100K	400	03OCT05A	30SEP08	624,018	02OCT06*	30SEP08	199	0	■ Fld. Rem.-100K Area Design												
<b>DD D4</b>																						
<b>AAE0755 D4 Building - 183 KW</b>																						
AAE0755A	Plan &	2	29AUG05A	30AUG05A	62,945	03JAN06*	24JAN06	67	78	■ Plan & Document - 183 KW												
AAE0755B	Deact & Decom	21	29AUG05A	29SEP05A	218,265	11JAN06	15FEB06	72	74	■ Deact & Decom - 183 KW												
AAE0755E	Loadout - 183	10	03OCT05A	18OCT05A	42,050	06MAR06	21MAR06	82	82	■ Loadout - 183 KW												
AAE0755C	Demolition	33	29AUG05A	25OCT05A	100,587	16FEB06	27FEB06	93	65	■ Demolition Above Grade - 183 KW												
<b>AAE0757 D4 Building - 183.1KW</b>																						
AAE0757B	Deact & Decom	32	19SEP05A	10NOV05A	274,256	22APR08	16JUL08	517	533	■ Deact & Decom - 183.1KW												
AAE0757A	Plan &	4	03JUL06A	16MAY07	0	01APR08*	21MAY08	348	203	■ Plan & Document - 183.1KW												
<b>AAE10 D4-Retention Basins</b>																						
0041.00219	Release KE	0	26MAR07*		0	02OCT06*		-94	-94	◆ Release KE Reactor												
<b>RA Field Remediation</b>																						
<b>CEA0316 Confirmatory Sampling Site - 100-K-63</b>																						
CEA0316B	Smplg and	25	26MAR07	07MAY07	40,121	15DEC10	01FEB11	746	746	■ Smplg and Analysis - CS Site - 100-K-63												
CEA0316A	Work	50	26MAR07	20JUN07	7,532	29OCT09	02FEB10	522	522	■ Work Instructions - CS Site - 100-K-63												
CEA0316C	RSVP or RTD	84	26MAR07	21AUG07	10,137	07FEB11	06JUL11	773	773	■ RSVP or RTD Report - CS Site - 100-K-63												
<b>CEA0317 Confirmatory Sampling Site - 100-K-64</b>																						
CEA0317B	Smplg and	25	28MAR07	09MAY07	40,121	20DEC10	03FEB11	746	746	■ Smplg and Analysis - CS Site - 100-K-64												
CEA0317A	Work	50	09APR07	05JUL07	7,532	12NOV09	17FEB10	522	522	■ Work Instructions - CS Site - 100-K-64												
CEA0317C	RSVP or RTD	84	28MAR07	23AUG07	10,137	09FEB11	11JUL11	773	773	■ RSVP or RTD Report - CS Site - 100-K-64												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
<b>CEA0335 Confirmatory Sampling Site - 126-K-1</b>																						
CEA0335B	Smplg and	25	26MAR07	07MAY07	40,121	11JAN11	23FEB11	758	758													
CEA0335A	Work	50	26MAR07	20JUN07	7,532	01FEB10	28APR10	570	570													
CEA0335C	RSVP or RTD	84	26MAR07	21AUG07	10,137	01MAR11	27JUL11	785	785													
<b>CEA0336 Confirmatory Sampling Site - 128-K-2</b>																						
CEA0336A	Work	50	01DEC10*	03MAR11	7,532	01OCT09*	05JAN10	-232	-232													
CEA0336B	Smplg and	25	07MAR11	18APR11	17,268	13JAN11	28FEB11	-28	-28													
CEA0336C	RSVP or RTD	84	19APR11	15SEP11	10,137	03MAR11	01AUG11	-26	-26													
<b>CEA0348 Confirmatory Sampling Site - 600-29</b>																						
CEA0348A	Work	50	01DEC10*	03MAR11	7,532	01DEC09	03MAR10	-200	-200													
CEA0348B	Smplg and	25	07MAR11	18APR11	29,530	27JAN11	14MAR11	-20	-20													
CEA0348C	RSVP or RTD	84	19APR11	15SEP11	10,137	17MAR11	15AUG11	-18	-18													
<b>CEA0353 Confirmatory Sampling Site - 100-K-57</b>																						
CEA0353A	Work	50	15DEC10*	17MAR11	7,532	15DEC09	17MAR10	-200	-200													
CEA0353B	Smplg and	25	09MAR11	20APR11	17,268	01FEB11	16MAR11	-20	-20													
CEA0353C	RSVP or RTD	84	21APR11	20SEP11	10,137	22MAR11	17AUG11	-18	-18													
<b>CEA0355 Confirmatory Sampling Site - 100-K-78</b>																						
CEA0355A	Work	50	04JAN11*	31MAR11	10,702	04JAN10	31MAR10	-200	-200													
CEA0355B	Smplg and	25	14MAR11	25APR11	40,121	03FEB11	21MAR11	-20	-20													
CEA0355C	RSVP or RTD	84	26APR11	22SEP11	10,137	24MAR11	22AUG11	-18	-18													
<b>CEA0360 Confirmatory Sampling Site - 100-K-83</b>																						
CEA0360A	Work	50	18JAN11*	14APR11	7,532	18JAN10	14APR10	-200	-200													
CEA0360B	Smplg and	25	16MAR11	27APR11	25,532	08FEB11	23MAR11	-20	-20													
CEA0360C	RSVP or RTD	84	28APR11	27SEP11	10,137	29MAR11	24AUG11	-18	-18													
<b>CEB0401 Remediate Liquid Waste Site - 116-K-2</b>																						
CEB0401E	Revegetation -	5	08FEB06A	28MAR06A	18,130	15NOV06	27NOV06	156	134													
CEB0401D	Closeout	159	29AUG05A	04APR06A	168,866	29NOV05	13SEP06	50	90													
CEB0401A	Excavation	50	29AUG05A	02OCT06A	206,393	29AUG05	28NOV05	0	-169													
CEB0401B	Loadout - Rem	50	29AUG05A	02OCT06A	701,151	29AUG05	28NOV05	0	-169													
CEB0401C	Backfill - Rem	35	03OCT05A	02OCT06A	1,292,012	14SEP06	14NOV06	190	25													
<b>CEC0402 Remediate Liquid Waste Site -100-K-55(100-K-56)</b>																						
CEC0402A1	Excavation	67	29AUG05A	28SEP05A	183,794	29AUG05	29DEC05	0	49													
<b>CEC0541 Remediate Waste Site - 116-KE-4</b>																						
CEC0541C	Backfill - Rem	9	29AUG05A	11JAN06A	492,501	13OCT05*	27OCT05	26	-38													
CEC0541E	Revegetation -	1	08FEB06A	28MAR06A	19,871	31OCT05	31OCT05	-53	-79													

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
<b>CEC0542 Remediate Waste Site - 116-KW-3</b>																						
CEC0542E	Revegetation -	2	08FEB06A	28MAR06A	19,871	01NOV05	02NOV05	-52	-77	■Revegetation - Rem Wst Site - 116-KW-3												
<b>CEC0543 Remediate Waste Site - 116-K-1</b>																						
CEC0543E	Revegetation -	2	08FEB06A	28MAR06A	11,788	03NOV05	07NOV05	-50	-75	■Revegetation - Rem Wst Site - 116-K-1												
<b>CEC0602 Remediate Burial Ground - 118-K-1</b>																						
CEC0602A	Excavation -	131	30MAY06A	31MAR09	4,191,479	03JAN06*	14DEC06	-82	-456	■Excavation - Rem BG - 118-K-1												
CEC0602B	Loadout - Rem	131	30MAY06A	31MAR09	2,507,123	31JAN06	17JAN07	-66	-440	■Loadout - Rem BG - 118-K-1												
CEC0602D	Closeout Smpg	350	01OCT07*	30JUN09	57,462	18JAN07	30OCT07	-141	-332	■Closeout Smpg - Rem BG - 118-K-1												
CEC0602C	Backfill - Rem	352	31DEC07	29SEP09	1,270,964	31OCT07	10MAR08	-30	-313	■Backfill - Rem BG - 118-K-1												
CEC0602E	Revegetation -	200	01OCT09*	30SEP10	40,122	11MAR08	02APR08	-314	-500	■Revegetation - Rem BG - 118-K-1												
<b>CER2501 Fid. Rem.-100K Non Site Specific Support</b>																						
CER2501A3	Fid. Rem.-100K	199	14SEP06A	27SEP07	295,059	02OCT06	27SEP07	9	0	■Fid. Rem.-100K Non Site Specific Support												
CER2501A4	Fid. Rem.-100K	201	01OCT07	30SEP08	388,416	01OCT07	31MAR08	0	-102	■Fid. Rem.-100K Non Site Specific Support												
CER2501A5	Fid. Rem.-100K	200	01OCT08	30SEP09	70,587	01APR09*	30SEP09	98	0	■Fid. Rem.-100K Non Site Specific Support												
CER2501A9	Fid. Rem.-100K	116	09MAR10	30SEP10	1,298,960	01OCT12	30APR13	514	514	■Fid. Rem.-100K Non Site Specific Support												
<b>IS ISS</b>																						
<b>BCA21 Iss-Interim Safe Storage</b>																						
0041.99936	TPA M-93-23	0		03MAR06A	0		31JUL06*	83	83	◆TPA M-93-23 Sub EECA KE/KW												
<b>BCA2101 Interim Safe Storage - 105-KE REACTOR (ISS)</b>																						
BCA2101A	Plan &	201	05OCT05A	22MAR07A	186,009	01MAY06*	31JAN07	112	-28	■Plan & Document - ISS - 105-KE Reactor												
<b>BCA2102 Interim Safe Storage - 105-KW REACTOR (ISS)</b>																						
BCA2102A	Plan &	122	27JUL06A	22MAR07A	67,701	03DEC07*	10JUL08	269	261	■Plan & Document - ISS - 105-KW Reactor												
<b>100 N AREA</b>																						
<b>DE Remedial Design</b>																						
<b>CFC0101 Fid. Rem.-100 N Area Design</b>																						
CFC0101A	Fid. Rem.-100	167	12SEP05A	27SEP07	718,143	02OCT06*	01AUG07	211	-32	■Fid. Rem.-100 N Area Design												
<b>DD D4</b>																						
<b>AAF0702 D4 Building - 105NB</b>																						
AAF0702B	Deact & Decom	41	18MAY06A	25JAN07A	499,268	10MAR09	19MAY09	559	463	■Deact & Decom - 105NB												
AAF0702A	Plan &	26	27DEC05A	22MAR07	48,601	19FEB09	06APR09	629	407	■Plan & Document - 105NB												
AAF0702C	Demolition	12	02JUL08*	23JUL08	57,421	20MAY09	08JUN09	176	174	■Demolition Above Grade - 105NB												
AAF0702D	Demolition	4	24JUL08	30JUL08	38,012	09JUN09	06JUL09	174	185	■Demolition Below Grade - 105NB												
AAF0702E	Loadout -	16	22JUL08	18AUG08	15,225	17JUN09	22JUL09	181	185	■Loadout - 105NB												
AAF0702F	Transition/Final	16	19AUG08	16SEP08	13,151	23JUL09	18AUG09	185	184	■Transition/Final Closure - 105NB												
<b>AAF0703 D4 Building - 107N</b>																						
AAF0703B	Deact & Decom	22	29AUG05A	28SEP06A	231,173	01JUL08*	18FEB09	567	475	■Deact & Decom - 107N												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16											
										Gantt Chart											
AAF0703A	Plan &	256	29AUG05A	01APR08	21,204	29AUG05	23JAN06	0	-438	■ Plan & Document - 107N											
AAF0703C	Demolition	50	19FEB09	18MAY09	48,960	19FEB09	15APR09	0	-18	■ Demolition Above Grade - 107N											
AAF0703D	Demolition	102	19MAY09	17NOV09	42,378	16APR09	09JUL09	-18	-73	■ Demolition Below Grade - 107N											
AAF0703E	Loadout - 107N	201	17NOV08	17NOV09	15,573	14MAY09	03SEP09	97	-41	■ Loadout - 107N											
AAF0703F	Transition/Final	20	18NOV09	29DEC09	10,355	08SEP09	01DEC09	-41	-14	■ Transition/Final Closure - 107N											
AAF0703M	Complete Bldg	0		09MAR10	0		03SEP09	-99	-99	◆ Complete Bldg 107N Demolition & 118-H-1 Loadout											
AAF0704 D4 Building - 108N																					
AAF0704A	Plan &	1	23JAN06A	21MAR06A	5,939	02APR12	03MAY12	1,237	1,224	■ Plan & Document - 108N											
AAF0704B	Deact & Decom	1	07MAR06A	22MAR06A	103,755	16APR12	11JUN12	1,221	1,243	■ Deact & Decom - 108N											
AAF0704C	Demolition	1	23MAR06A	23MAR06A	29,832	12JUN12	25JUN12	1,243	1,250	■ Demolition Above Grade - 108N											
AAF0704D	Demolition	1	04APR06A	30SEP06A	1,606	26JUN12	17JUL12	1,245	1,157	■ Demolition Below Grade - 108N											
AAF0704E	Loadout - 108N	40	03APR06A	30SEP06A	1,798	03JUL12	31JUL12	1,250	1,165	■ Loadout - 108N											
AAF0704F	Transition/Final	16	17MAY07	14JUN07	3,645	01AUG12	21AUG12	1,040	1,036	■ Transition/Final Closure - 108N											
AAF0704M	Compl 100N	0		13DEC12	0		31JUL12	-75	-75	◆ Compl 100N Ancillary Facil Demo(excl 105-N,109-N)											
AAF0706 D4 Building - 1112N																					
AAF0706A	Plan &	25	03JUL06A	30SEP06A	1,238	01OCT07*	12NOV07	249	224	■ Plan & Document - 1112N											
AAF0706B	Deact & Decom	8	23JUL08*	05AUG08	26,829	17OCT07	31DEC07	-152	-121	■ Deact & Decom - 1112N											
AAF0706C	Demolition	12	06AUG08	26AUG08	14,151	02JAN08	17JAN08	-121	-123	■ Demolition Above Grade - 1112N											
AAF0706D	Demolition	8	27AUG08	10SEP08	0	21JAN08	13FEB08	-123	-116	■ Demolition Below Grade - 1112N											
AAF0706E	Loadout -	20	25AUG08	29SEP08	4,125	29JAN08	04MAR08	-116	-116	■ Loadout - 1112N											
AAF0706F	Transition/Final	16	30SEP08	27OCT08	4,625	05MAR08	31MAR08	-116	-117	■ Transition/Final Closure - 1112N											
AAF0707 D4 Building - 1120N																					
AAF0707A	Plan &	5	04OCT10*	11OCT10	39,477	02AUG10*	28SEP10	-35	-7	■ Plan & Document - 1120N											
AAF0707B	Deact & Decom	8	26OCT10	08NOV10	154,655	24AUG10	29NOV10	-35	10	■ Deact & Decom - 1120N											
AAF0707C	Demolition	4	09NOV10	15NOV10	60,077	30NOV10	21DEC10	10	19	■ Demolition Above Grade - 1120N											
AAF0707D	Demolition	4	16NOV10	22NOV10	0	27DEC10	31JAN11	19	35	■ Demolition Below Grade - 1120N											
AAF0707E	Loadout -	8	06DEC10	16DEC10	26,935	06JAN11	23FEB11	16	35	■ Loadout - 1120N											
AAF0707F	Transition/Final	16	20DEC10	19JAN11	16,561	24FEB11	30MAR11	35	39	■ Transition/Final Closure - 1120N											
AAF0708 D4 Building - 1143N																					
AAF0708A	Plan &	21	03JUL06A	24APR07	17,301	01DEC10*	11JAN11	882	741	■ Plan & Document - 1143N											
AAF0708B	Deact & Decom	2	12MAY11*	16MAY11	178,740	15DEC10	15FEB11	-81	-50	■ Deact & Decom - 1143N											
AAF0708C	Demolition	4	17MAY11	23MAY11	26,008	16FEB11	02MAR11	-50	-46	■ Demolition Above Grade - 1143N											
AAF0708D	Demolition	3	24MAY11	26MAY11	0	03MAR11	23MAR11	-46	-37	■ Demolition Below Grade - 1143N											
AAF0708E	Loadout -	7	01JUN11	13JUN11	11,661	09MAR11	06APR11	-47	-37	■ Loadout - 1143N											









Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year																					
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16										
AAF0719F	Transition/Final	16	15SEP08	09OCT08	1,219	08AUG07	01OCT07	-220	-206																						
<b>AAF0720 D4 Building - 1322NB</b>																															
AAF0720A	Plan &	20	03JUL06A	30SEP06A	500	02OCT06	03JAN07	50	50																						
AAF0720B	Deact & Decom	2	28JUL08	29JUL08	34,074	06NOV06	03APR07	-343	-265																						
AAF0720C	Demolition	2	30JUL08	31JUL08	9,811	04APR07	08MAY07	-265	-247																						
AAF0720D	Demolition	3	04AUG08	06AUG08	2,081	09MAY07	02JUL07	-247	-220																						
AAF0720E	Loadout -	5	04SEP08	11SEP08	2,282	29MAY07	07AUG07	-255	-220																						
AAF0720F	Transition/Final	16	15SEP08	09OCT08	1,209	08AUG07	01OCT07	-220	-206																						
<b>AAF0721 D4 Building - 1322NC</b>																															
AAF0721A	Plan &	20	03JUL06A	30SEP06A	500	02OCT06	03JAN07	50	50																						
AAF0721B	Deact & Decom	2	28JUL08	29JUL08	34,074	06NOV06	03APR07	-343	-265																						
AAF0721C	Demolition	2	30JUL08	31JUL08	9,811	04APR07	08MAY07	-265	-247																						
AAF0721D	Demolition	3	04AUG08	06AUG08	2,081	09MAY07	02JUL07	-247	-220																						
AAF0721E	Loadout -	5	04SEP08	11SEP08	2,282	29MAY07	07AUG07	-255	-220																						
AAF0721F	Transition/Final	16	15SEP08	09OCT08	1,209	08AUG07	01OCT07	-220	-206																						
<b>AAF0722 D4 Building - 1330N</b>																															
AAF0722B	Deact & Decom	2	15OCT08	16OCT08	119,484	15OCT08	11DEC08	0	30																						
AAF0722A	Plan &	42	01OCT08*	16DEC08	30,662	01OCT08*	04NOV08	0	-22																						
AAF0722C	Demolition	2	17DEC08	18DEC08	46,414	15DEC08	30DEC08	-2	4																						
AAF0722D	Demolition	2	22DEC08	23DEC08	0	31DEC08	21JAN09	4	14																						
AAF0722E	Loadout -	4	06JAN09	12JAN09	20,810	08JAN09	04FEB09	2	14																						
AAF0722F	Transition/Final	16	13JAN09	09FEB09	12,794	05FEB09	26FEB09	14	10																						
<b>AAF0723 D4 Building - 1331N</b>																															
AAF0723A	Plan &	71	03OCT05A	19DEC05A	104	01FEB10*	07JUN10	863	891																						
AAF0723B	Deact & Decom	2	05DEC05A	19DEC05A	2,278	24MAR10	13OCT10	858	963																						
AAF0723C	Demolition	2	27DEC05A	27DEC05A	2,063	14OCT10	07DEC10	961	989																						
AAF0723D	Demolition	2	17JAN06A	18JAN06A	0	08DEC10	28FEB11	979	1,020																						
AAF0723E	Loadout -	12	18JAN06A	26JAN06A	652	10JAN11	19APR11	993	1,044																						
AAF0723F	Transition/Final	5	06FEB06A	16MAR06A	315	20APR11	06JUL11	1,040	1,060																						
<b>AAF0724 D4 Building - 1332N</b>																															
AAF0724A	Plan &	6	03OCT05A	21NOV05A	900	03MAY10*	16AUG10	914	944																						
AAF0724B	Deact & Decom	2	22NOV05A	22NOV05A	7,550	14JUN10	30NOV10	908	1,001																						
AAF0724C	Demolition	2	22NOV05A	22NOV05A	6,838	01DEC10	13JAN11	1,002	1,024																						
AAF0724D	Demolition	2	22NOV05A	22NOV05A	0	17JAN11	17MAR11	1,025	1,059																						
AAF0724E	Loadout -	2	22NOV05A	22NOV05A	2,162	03FEB11	27APR11	1,036	1,082																						

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
AAF0724F	Transition/Final	5	22NOV05A	22NOV05A	1,043	28APR11	29JUN11	1,083	1,117	Transition/Final Closure - 1332N												
AAF0725 D4 Building - 13N																						
AAF0725A	Plan &	8	03JUL06A	25JAN07A	319	03FEB09	17FEB09	516	411	Plan & Document - 13N												
AAF0725B	Deact & Decom	2	24JAN07A	25JAN07A	7,182	09FEB09	02MAR09	408	418	Deact & Decom - 13N												
AAF0725C	Demolition	2	02JUL08*	07JUL08	2,619	03MAR09	05MAR09	131	132	Demolition Above Grade - 13N												
AAF0725D	Demolition	2	02JUL08	07JUL08	714	09MAR09	16MAR09	134	137	Demolition Below Grade - 13N												
AAF0725E	Loadout - 13N	4	08JUL08	14JUL08	648	11MAR09	19MAR09	134	136	Loadout - 13N												
AAF0725F	Transition/Final	16	15JUL08	11AUG08	349	23MAR09	30MAR09	136	125	Transition/Final Closure - 13N												
AAF0726 D4 Building - 1515N																						
AAF0726A	Plan &	23	03OCT05A	19DEC05A	36,341	01APR08*	08MAY08	497	477	Plan & Document - 1515N												
AAF0726B	Deact & Decom	2	05DEC05A	19DEC05A	369,943	16APR08	18JUN08	472	499	Deact & Decom - 1515N												
AAF0726C	Demolition	5	29DEC05A	29DEC05A	42,561	19JUN08	07JUL08	495	503	Demolition Above Grade - 1515N												
AAF0726D	Demolition	6	12JAN06A	12JAN06A	28,175	08JUL08	30JUL08	497	510	Demolition Below Grade - 1515N												
AAF0726E	Loadout -	8	03JAN06A	02FEB06A	11,285	16JUL08	14AUG08	508	507	Loadout - 1515N												
AAF0726F	Transition/Final	5	06FEB06A	16MAR06A	9,748	18AUG08	10SEP08	507	498	Transition/Final Closure - 1515N												
AAF0727 D4 Building - 1516N																						
AAF0727A	Plan &	23	03OCT05A	19DEC05A	2,960	01APR08	08MAY08	497	477	Plan & Document - 1516N												
AAF0727B	Deact & Decom	3	05DEC05A	19DEC05A	21,602	16APR08	18JUN08	472	499	Deact & Decom - 1516N												
AAF0727C	Demolition	4	20DEC05A	21DEC05A	19,564	19JUN08	07JUL08	499	506	Demolition Above Grade - 1516N												
AAF0727D	Demolition	5	20DEC05A	21DEC05A	0	08JUL08	30JUL08	508	520	Demolition Below Grade - 1516N												
AAF0727E	Loadout -	16	09JAN06A	02FEB06A	6,186	16JUL08	14AUG08	505	507	Loadout - 1516N												
AAF0727F	Transition/Final	5	06FEB06A	16MAR06A	2,983	18AUG08	10SEP08	507	498	Transition/Final Closure - 1516N												
AAF0728 D4 Building - 1517N																						
AAF0728A	Plan &	23	03OCT05A	19DEC05A	3,977	01APR08	08MAY08	497	477	Plan & Document - 1517N												
AAF0728B	Deact & Decom	3	05DEC05A	19DEC05A	37,533	16APR08	18JUN08	472	499	Deact & Decom - 1517N												
AAF0728C	Demolition	4	27DEC05A	27DEC05A	6,656	19JUN08	07JUL08	497	505	Demolition Above Grade - 1517N												
AAF0728D	Demolition	5	17JAN06A	18JAN06A	0	08JUL08	30JUL08	495	507	Demolition Below Grade - 1517N												
AAF0728E	Loadout -	12	18JAN06A	26JAN06A	1,940	16JUL08	14AUG08	499	511	Loadout - 1517N												
AAF0728F	Transition/Final	5	06FEB06A	16MAR06A	2,175	18AUG08	10SEP08	507	498	Transition/Final Closure - 1517N												
AAF0729 D4 Building - 1518N																						
AAF0729A	Plan &	23	03OCT05A	19DEC05A	2,785	01APR08	08MAY08	497	477	Plan & Document - 1518N												
AAF0729B	Deact & Decom	3	05DEC05A	19DEC05A	36,843	16APR08	18JUN08	472	499	Deact & Decom - 1518N												
AAF0729C	Demolition	4	27DEC05A	27DEC05A	18,104	19JUN08	07JUL08	497	505	Demolition Above Grade - 1518N												
AAF0729D	Demolition	5	17JAN06A	18JAN06A	0	08JUL08	30JUL08	495	507	Demolition Below Grade - 1518N												
AAF0729E	Loadout -	7	18JAN06A	26JAN06A	5,724	16JUL08	14AUG08	499	511	Loadout - 1518N												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year																						
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16											
AAF0729F	Transition/Final	5	06FEB06A	16MAR06A	2,760	18AUG08	10SEP08	507	498																							
AAF0730 D4 Building - 1519N																																
AAF0730A	Plan &	23	03OCT05A	19DEC05A	2,959	01APR08	08MAY08	497	477																							
AAF0730B	Deact & Decom	3	05DEC05A	19DEC05A	57,663	16APR08	18JUN08	472	499																							
AAF0730C	Demolition	4	20DEC05A	21DEC05A	19,495	19JUN08	07JUL08	499	506																							
AAF0730D	Demolition	5	17JAN06A	18JAN06A	0	08JUL08	30JUL08	495	507																							
AAF0730E	Loadout -	11	18JAN06A	26JAN06A	6,164	16JUL08	14AUG08	499	511																							
AAF0730F	Transition/Final	5	06FEB06A	16MAR06A	2,972	18AUG08	10SEP08	507	498																							
AAF0731 D4 Building - 151N																																
AAF0731A	Plan &	71	03OCT05A	15NOV05A	8,021	14JAN08*	15MAY08	453	498																							
AAF0731B	Deact & Decom	7	17NOV05A	05DEC05A	130,674	05MAR08	24SEP08	455	561																							
AAF0731C	Demolition	12	06DEC05A	08DEC05A	13,904	25SEP08	13NOV08	561	587																							
AAF0731D	Demolition	20	12DEC05A	26JAN06A	0	17NOV08	05FEB09	587	605																							
AAF0731F	Transition/Final	5	23FEB06A	30MAR06A	4,544	01APR09	16JUN09	620	642																							
AAF0731E	Loadout - 151N	12	06DEC05A	27APR06A	4,053	16DEC08	31MAR09	605	583																							
AAF0732 D4 Building - 153N																																
AAF0732A	Plan &	71	03OCT05A	15NOV05A	14,767	14JAN08*	15MAY08	453	498																							
AAF0732B	Deact & Decom	9	17NOV05A	12DEC05A	242,484	04MAR08	23SEP08	454	556																							
AAF0732C	Demolition	13	27FEB06A	23FEB06A	25,822	24SEP08	11NOV08	517	545																							
AAF0732D	Demolition	18	29MAR06A	30MAY06A	0	12NOV08	03FEB09	527	535																							
AAF0732E	Loadout - 153N	6	07MAR06A	29JUN06A	7,527	10DEC08	25MAR09	554	545																							
AAF0732F	Transition/Final	1	03JUL06A	09NOV06A	8,439	26MAR09	10JUN09	545	514																							
AAF0734 D4 Building - 1614N																																
AAF0734A	Plan &	50	13FEB12*	09MAY12	9	05JUL11*	29SEP11	-121	-121																							
AAF0734B	Deact & Decom	80	20MAR12	08AUG12	1,152	09AUG11	04JAN12	-121	-121																							
AAF0734C	Demolition	20	09AUG12	13SEP12	1,043	05JAN12	08FEB12	-121	-121																							
AAF0734D	Demolition	30	17SEP12	06NOV12	0	09FEB12	03APR12	-121	-121																							
AAF0734E	Loadout -	40	03OCT12	13DEC12	330	29FEB12	08MAY12	-121	-121																							
AAF0734F	Transition/Final	30	17DEC12	11FEB13	159	09MAY12	02JUL12	-121	-121																							
AAF0735 D4 Building - 163N																																
AAF0735B	Deact & Decom	14	13MAR06A	19APR06A	1,583,896	01MAY06*	20SEP07	28	285																							
AAF0735A	Plan &	202	29AUG05A	28SEP06A	93,505	03OCT05*	04JAN06	19	-149																							
AAF0735C	Demolition	1	12JUL06A	11OCT06A	141,816	24SEP07	25OCT07	240	208																							
AAF0735D	Demolition	20	05DEC06A	15FEB07A	0	29OCT07	20DEC07	180	170																							
AAF0735E	Loadout - 163N	19	01OCT07*	31OCT07	63,583	14NOV07	30JAN08	26	47																							

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
AAF0735F	Transition/Final	16	01NOV07	03DEC07	39,093	31JAN08	25MAR08	47	61	Transition/Final Closure - 163N												
AAF0736 D4 Building - 166N																						
AAF0736B	Deact & Decom	80	27DEC05A	05JAN06A	25,061	07NOV05	04APR06	-25	49	Deact & Decom - 166N												
AAF0736D	Demolition	30	24APR06A	15MAY06A	0	10MAY06	03JUL06	10	27	Demolition Below Grade - 166N												
AAF0736C	Demolition	157	12SEP05A	18MAY06A	15,389	05APR06	09MAY06	112	-6	Demolition Above Grade - 166N												
AAF0736E	Loadout - 166N	40	16MAR06A	18MAY06A	5,921	30MAY06	08AUG06	41	44	Loadout - 166N												
AAF0736F	Transition/Final	30	22MAY06A	15JUN06A	2,874	09AUG06	02OCT06	44	59	Transition/Final Closure - 166N												
AAF0736A	Plan &	101	29AUG05A	24AUG06A	1,153	03OCT05*	04JAN06	19	-130	Plan & Document - 166N												
AAF0737 D4 Building - 1701N																						
AAF0737A	Plan &	55	08MAY06A	16MAY06A	1,154	01JUN10*	07SEP10	812	861	Plan & Document - 1701N (MO-992)												
AAF0737B	Deact & Decom	87	18MAY06A	31MAY06A	0	12JUL10	14DEC10	827	907	Deact & Decom - 1701N (MO-992)												
AAF0737C	Demolition	8	27JUN06A	03JUL06A	5,479	15DEC10	26JAN11	893	911	Demolition Above Grade - 1701N (MO-992)												
AAF0737D	Demolition	4	03JUL06A	10JUL06A	0	27JAN11	28MAR11	912	941	Demolition Below Grade - 1701N (MO-992)												
AAF0737E	Loadout -	4	05JUL06A	10JUL06A	0	16FEB11	04MAY11	922	963	Loadout - 1701N (MO-992)												
AAF0737F	Transition/Final	16	10JUL06A	24AUG06A	501	05MAY11	05JUL11	964	969	Transition/Final Closure - 1701N (MO-992)												
AAF0738 D4 Building - 1705N																						
AAF0738A	Plan &	185	03OCT05A	30MAR06A	41,925	03JUL06*	25JAN07	149	164	Plan & Document - 1705N												
AAF0738B	Deact & Decom	1	03JUL06A	20SEP06A	435,203	21SEP06	15AUG07	45	180	Deact & Decom - 1705N												
AAF0738C	Demolition	1	19SEP06A	21SEP06A	63,316	16AUG07	05NOV07	182	224	Demolition Above Grade - 1705N												
AAF0738D	Demolition	6	02JUL08	14JUL08	0	06NOV07	12MAR08	-130	-68	Demolition Below Grade - 1705N												
AAF0738E	Loadout -	3	15JUL08	17JUL08	28,388	19DEC07	02JUN08	-113	-26	Loadout - 1705N												
AAF0738F	Transition/Final	16	21JUL08	14AUG08	17,453	03JUN08	01OCT08	-26	26	Transition/Final Closure - 1705N												
AAF0739 D4 Building - 1705NA																						
AAF0739B	Deact & Decom	1	03JUL06A	06JUL06A	116,442	10OCT06	13NOV07	55	272	Deact & Decom - 1705NA												
AAF0739A	Plan &	1	01AUG06A	24AUG06A	7,368	03JUL06	13MAR07	-16	107	Plan & Document - 1705NA												
AAF0739C	Demolition	1	19SEP06A	21SEP06A	12,395	14NOV07	27FEB08	232	284	Demolition Above Grade - 1705NA												
AAF0739D	Demolition	4	02JUL08*	09JUL08	0	28FEB08	24JUL08	-70	9	Demolition Below Grade - 1705NA												
AAF0739E	Loadout -	2	10JUL08	14JUL08	3,613	17APR08	30OCT08	-46	62	Loadout - 1705NA												
AAF0739F	Transition/Final	16	15JUL08	11AUG08	4,051	03NOV08	06APR09	62	129	Transition/Final Closure - 1705NA												
AAF0740 D4 Building - 1706N																						
AAF0740B	Deact & Decom	1	03JUL06A	13JUL06A	109,490	10OCT06	13NOV07	55	268	Deact & Decom - 1706N												
AAF0740A	Plan &	1	01AUG06A	24AUG06A	6,130	03JUL06	13MAR07	-16	107	Plan & Document - 1706N												
AAF0740C	Demolition	1	19SEP06A	21SEP06A	31,489	14NOV07	27FEB08	232	284	Demolition Above Grade - 1706N												
AAF0740D	Demolition	2	02JUL08	07JUL08	6,495	28FEB08	24JUL08	-70	11	Demolition Below Grade - 1706N												
AAF0740E	Loadout -	2	08JUL08	09JUL08	7,342	17APR08	30OCT08	-44	64	Loadout - 1706N												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Gantt Chart												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
AAF0740F	Transition/Final	16	10JUL08	06AUG08	3,858	03NOV08	06APR09	64	131	Transition/Final Closure - 1706N												
AAF0741 D4 Building - 1707N																						
AAF0741A	Plan &	36	20MAR06A	10MAY06A	2,663	01JUN11	29AUG11	1,040	1,059	Plan & Document - 1707N												
AAF0741B	Deact & Decom	1	10JUL06A	10JUL06A	19,196	07JUL11	29NOV11	998	1,077	Deact & Decom - 1707N												
AAF0741C	Demolition	1	11JUL06A	11JUL06A	17,385	30NOV11	09JAN12	1,077	1,096	Demolition Above Grade - 1707N												
AAF0741D	Demolition	1	12JUL06A	12JUL06A	0	10JAN12	01MAR12	1,096	1,125	Demolition Below Grade - 1707N												
AAF0741E	Loadout -	1	11JUL06A	13JUL06A	5,497	26JAN12	05APR12	1,107	1,144	Loadout - 1707N												
AAF0741F	Transition/Final	1	27JUL06A	03MAY07	2,651	09APR12	30MAY12	1,137	1,013	Transition/Final Closure - 1707N												
AAF0742 D4 Building - 1712N																						
AAF0742A	Plan &	8	03JUL06A	29JAN07A	102	31JAN08*	13FEB08	315	209	Plan & Document - 1712N												
AAF0742B	Deact & Decom	3	14JUL08*	16JUL08	2,038	06FEB08	27FEB08	-87	-78	Deact & Decom - 1712N												
AAF0742C	Demolition	3	17JUL08	22JUL08	1,855	28FEB08	04MAR08	-78	-78	Demolition Above Grade - 1712N												
AAF0742D	Demolition	3	23JUL08	28JUL08	0	05MAR08	12MAR08	-78	-76	Demolition Below Grade - 1712N												
AAF0742E	Loadout -	6	23JUL08	31JUL08	586	10MAR08	18MAR08	-76	-76	Loadout - 1712N												
AAF0742F	Transition/Final	16	04AUG08	28AUG08	283	19MAR08	26MAR08	-76	-87	Transition/Final Closure - 1712N												
AAF0743 D4 Building - 1714N																						
AAF0743A	Plan &	8	03JUL06A	29JAN07A	1,014	31JAN08	13FEB08	315	209	Plan & Document - 1714N												
AAF0743B	Deact & Decom	3	30JUL08*	04AUG08	3,473	06FEB08	27FEB08	-97	-88	Deact & Decom - 1714N												
AAF0743C	Demolition	3	05AUG08	07AUG08	1,836	28FEB08	04MAR08	-88	-88	Demolition Above Grade - 1714N												
AAF0743D	Demolition	3	11AUG08	13AUG08	0	05MAR08	12MAR08	-88	-86	Demolition Below Grade - 1714N												
AAF0743E	Loadout -	6	11AUG08	19AUG08	535	10MAR08	18MAR08	-86	-86	Loadout - 1714N												
AAF0743F	Transition/Final	16	20AUG08	17SEP08	600	19MAR08	26MAR08	-86	-97	Transition/Final Closure - 1714N												
AAF0744 D4 Building - 1714NA																						
AAF0744A	Plan &	8	08JAN07A	29JAN07A	1,371	31JAN08	13FEB08	214	209	Plan & Document - 1714NA												
AAF0744B	Deact & Decom	3	14AUG08*	19AUG08	4,341	06FEB08	27FEB08	-106	-97	Deact & Decom - 1714NA												
AAF0744C	Demolition	3	20AUG08	25AUG08	2,294	28FEB08	04MAR08	-97	-97	Demolition Above Grade - 1714NA												
AAF0744D	Demolition	3	26AUG08	28AUG08	0	05MAR08	12MAR08	-97	-95	Demolition Below Grade - 1714NA												
AAF0744E	Loadout -	6	26AUG08	04SEP08	669	10MAR08	18MAR08	-95	-95	Loadout - 1714NA												
AAF0744F	Transition/Final	16	08SEP08	02OCT08	750	19MAR08	26MAR08	-95	-106	Transition/Final Closure - 1714NA												
AAF0745 D4 Building - 1714NB																						
AAF0745A	Plan &	20	08JAN07A	29JAN07A	788	31JAN08	13FEB08	214	209	Plan & Document - 1714NB												
AAF0745B	Deact & Decom	3	02SEP08*	04SEP08	3,464	06FEB08	27FEB08	-115	-106	Deact & Decom - 1714NB												
AAF0745C	Demolition	3	08SEP08	10SEP08	1,394	28FEB08	04MAR08	-106	-106	Demolition Above Grade - 1714NB												
AAF0745D	Demolition	3	11SEP08	16SEP08	330	05MAR08	12MAR08	-106	-104	Demolition Below Grade - 1714NB												
AAF0745E	Loadout -	6	11SEP08	22SEP08	204	10MAR08	18MAR08	-104	-104	Loadout - 1714NB												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
AAF0745F	Transition/Final	16	23SEP08	20OCT08	301	19MAR08	26MAR08	-104	-115	Transition/Final Closure - 1714NB												
AAF0747 D4 Building - 1723N																						
AAF0747B	Deact & Decom	1	17MAY06A	17MAY06A	809,641	07JUL11	29NOV11	1,026	1,105	Deact & Decom - 1723N												
AAF0747A	Plan &	1	13MAR06A	18MAY06A	79,300	01JUN11*	29AUG11	1,044	1,054	Plan & Document - 1723N												
AAF0747C	Demolition	1	18MAY06A	25MAY06A	93,115	30NOV11	09JAN12	1,105	1,120	Demolition Above Grade - 1723N												
AAF0747D	Demolition	1	25MAY06A	08JUN06A	61,641	10JAN12	01MAR12	1,121	1,143	Demolition Below Grade - 1723N												
AAF0747E	Loadout -	1	25MAY06A	08JUN06A	24,690	26JAN12	05APR12	1,131	1,163	Loadout - 1723N												
AAF0747F	Transition/Final	16	21JUN06A	07SEP06A	21,326	09APR12	30MAY12	1,157	1,143	Transition/Final Closure - 1723N												
AAF0748 D4 Building - 181N																						
AAF0748A	Plan &	20	27FEB12*	29MAR12	0	01JUN11	29AUG11	-146	-116	Plan & Document - 181N												
AAF0748B	Deact & Decom	16	02APR12	26APR12	562,522	07JUL11	29NOV11	-146	-82	Deact & Decom - 181N												
AAF0748C	Demolition	12	30APR12	17MAY12	33,192	30NOV11	09JAN12	-82	-74	Demolition Above Grade - 181N												
AAF0748D	Demolition	8	21MAY12	04JUN12	8,965	10JAN12	01MAR12	-74	-52	Demolition Below Grade - 181N												
AAF0748E	Loadout - 181N	20	05JUN12	10JUL12	24,630	26JAN12	05APR12	-72	-52	Loadout - 181N												
AAF0748F	Transition/Final	16	11JUL12	07AUG12	15,143	09APR12	30MAY12	-52	-38	Transition/Final Closure - 181N												
AAF0749 D4 Building - 181NE																						
AAF0749A	Plan &	20	10JAN12*	13FEB12	36,389	01JUN11	29AUG11	-120	-90	Plan & Document - 181NE												
AAF0749B	Deact & Decom	4	14FEB12	21FEB12	627,112	07JUL11	29NOV11	-120	-44	Deact & Decom - 181NE												
AAF0749C	Demolition	4	22FEB12	28FEB12	33,228	30NOV11	09JAN12	-44	-28	Demolition Above Grade - 181NE												
AAF0749D	Demolition	4	29FEB12	06MAR12	8,975	10JAN12	01MAR12	-28	-2	Demolition Below Grade - 181NE												
AAF0749E	Loadout -	8	28MAR12	10APR12	24,657	26JAN12	05APR12	-34	-2	Loadout - 181NE												
AAF0749F	Transition/Final	16	11APR12	08MAY12	15,160	09APR12	30MAY12	-2	12	Transition/Final Closure - 181NE												
AAF0750 D4 Building - 182N																						
AAF0750A	Plan &	214	29AUG05A	19APR07	129,579	04OCT10*	12JAN11	1,018	744	Plan & Document - 182N												
AAF0750B	Deact & Decom	38	01OCT07*	06DEC07	1,322,049	10NOV10	20APR11	623	672	Deact & Decom - 182N												
AAF0750C	Demolition	12	10DEC07	02JAN08	152,041	21APR11	31MAY11	672	682	Demolition Above Grade - 182N												
AAF0750D	Demolition	20	03JAN08	06FEB08	100,650	01JUN11	28JUL11	682	695	Demolition Below Grade - 182N												
AAF0750E	Loadout - 182N	32	18DEC07	14FEB08	40,314	22JUN11	07SEP11	701	712	Loadout - 182N												
AAF0750F	Transition/Final	16	19FEB08	17MAR08	34,821	08SEP11	03NOV11	712	729	Transition/Final Closure - 182N												
AAF0751 D4 Building - 183N																						
AAF0751B	Deact & Decom	143	29AUG05A	25MAY06A	323,742	03OCT11*	29DEC11	1,217	1,116	Deact & Decom - 183N												
AAF0751D	Demolition	16	05SEP06A	29MAR07	0	24JAN12	23FEB12	1,074	979	Demolition Below Grade - 183N												
AAF0751C	Demolition	231	06SEP05A	05APR07	34,464	03JAN12	23JAN12	1,261	957	Demolition Above Grade - 183N												
AAF0751A	Plan &	247	29AUG05A	24MAY07	19,875	03OCT05*	22NOV05	19	-299	Plan & Document - 183N												
AAF0751E	Loadout - 183N	24	05DEC06A	24MAY07	10,046	02FEB12	15MAR12	1,030	959	Loadout - 183N												

















































Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
CFB0527E	Revegetation -	17	27NOV06A	08JAN07A	45,252	05APR07	18APR07	71	57	■ Revegetation - Rem Wst Site - 116-N-1												
CFB0527D	Closeout Smpgl	137	03OCT05A	29MAR07	671,901	11APR06	25JAN07	103	-35	■ Closeout Smpgl - Rem Wst Site - 116-N-1												
CFB0528 Remediate Waste Site - 116-N-2 (Bldg 1310N)																						
CFB0528A	Excavation	2	11SEP08	15SEP08	41,884	17SEP08	29SEP08	3	8	■ Excavation Process - Rem Wst Site - 116-N-2 (D4												
CFB0528B	Loadout - Rem	7	09OCT08	21OCT08	15,671	15OCT08	27OCT08	3	3	■ Loadout - Rem Wst Site - 116-N-2 (D4 1310N)												
CFB0528D	Closeout Smpgl	159	22OCT08	10AUG09	19,223	28OCT08	13AUG09	3	3	■ Closeout Smpgl - Rem Wst Site - 116-N-2 (D4 1310												
CFB0528C	Backfill - Rem	3	11AUG09	13AUG09	12,373	11APR12	16APR12	532	532	■ Backfill - Rem Wst Site - 116-N-2 (D4 1310N)												
CFB0528E	Revegetation -	1	17AUG09	17AUG09	1,086	25JUN12	25JUN12	570	570	■ Revegetation - Rem Wst Site - 116-N-2 (D4 1310N)												
CFB0529 Remediate Waste Site - 116-N-4																						
CFB0529A	Excavation	36	15NOV10	24JAN11	179,938	11MAR10	12MAY10	-138	-138	■ Excavation Process - Rem Wst Site - 116-N-4												
CFB0529B	Loadout - Rem	36	15DEC10	22FEB11	18,265	08APR10	10JUN10	-138	-138	■ Loadout - Rem Wst Site - 116-N-4												
CFB0529D	Closeout Smpgl	159	23FEB11	06DEC11	33,274	14JUN10	30MAR11	-138	-138	■ Closeout Smpgl - Rem Wst Site - 116-N-4												
CFB0529C	Backfill - Rem	13	07DEC11	03JAN12	85,115	19DEC11	12JAN12	6	6	■ Backfill - Rem Wst Site - 116-N-4												
CFB0529E	Revegetation -	3	04JAN12	09JAN12	2,775	16JAN12	18JAN12	6	6	■ Revegetation - Rem Wst Site - 116-N-4												
CFB0531 Remediate Waste Site - 118-N-1																						
CFB0531A	Excavation	11	18AUG08	04SEP08	105,699	29JAN09	18FEB09	89	89	■ Excavation Process - Rem Wst Site - 118-N-1												
CFB0531B	Loadout - Rem	11	16SEP08	02OCT08	9,094	02MAR09	18MAR09	89	89	■ Loadout - Rem Wst Site - 118-N-1												
CFB0531D	Closeout Smpgl	159	06OCT08	22JUL09	12,322	19MAR09	05JAN10	89	89	■ Closeout Smpgl - Rem Wst Site - 118-N-1												
CFB0531E	Revegetation -	1	04NOV09	04NOV09	862	26JUN12	26JUN12	526	526	■ Revegetation - Rem Wst Site - 118-N-1												
CFB0531C	Backfill - Rem	4	11NOV09	17NOV09	17,262	12MAY10	18MAY10	98	98	■ Backfill - Rem Wst Site - 118-N-1												
CFB0532 Remediate Waste Site - 120-N-3																						
CFB0532A	Excavation	1	02JUL08	02JUL08	11,175	10JUL08	21JUL08	4	9	■ Excavation Process - Rem Wst Site - 120-N-3												
CFB0532B	Loadout - Rem	6	31JUL08	11AUG08	3,504	07AUG08	18AUG08	4	4	■ Loadout - Rem Wst Site - 120-N-3												
CFB0532D	Closeout Smpgl	159	12AUG08	28MAY09	6,366	19AUG08	04JUN09	4	4	■ Closeout Smpgl - Rem Wst Site - 120-N-3												
CFB0532C	Backfill - Rem	2	01JUN09	02JUN09	3,114	20OCT11	24OCT11	479	479	■ Backfill - Rem Wst Site - 120-N-3												
CFB0532E	Revegetation -	1	03JUN09	03JUN09	151	17JUL12	17JUL12	623	623	■ Revegetation - Rem Wst Site - 120-N-3												
CFB0533 Remediate Waste Site - 120-N-7																						
CFB0533A	Excavation	15	28JUN07*	25JUL07	312	17DEC08	29DEC08	294	284	■ Excavation Process - Rem Wst Site - 120-N-7												
CFB0533B	Loadout - Rem	15	30JUL07	22AUG07	98	20JAN09	27JAN09	294	284	■ Loadout - Rem Wst Site - 120-N-7												
CFB0533D	Closeout Smpgl	15	23AUG07	19SEP07	178	28JAN09	09NOV09	284	428	■ Closeout Smpgl - Rem Wst Site - 120-N-7												
CFB0533C	Backfill - Rem	15	20SEP07	16OCT07	87	28DEC11	29DEC11	851	838	■ Backfill - Rem Wst Site - 120-N-7												
CFB0533E	Revegetation -	15	17OCT07	12NOV07	4	08AUG12	08AUG12	960	946	■ Revegetation - Rem Wst Site - 120-N-7												
CFB0534 Remediate Waste Site - 124-N-1																						
CFB0534A	Excavation	5	29JUL08	05AUG08	286	12NOV08	19NOV08	60	60	■ Excavation Process - Rem Wst Site - 124-N-1												
CFB0534B	Loadout - Rem	5	26AUG08	03SEP08	115	15DEC08	22DEC08	60	60	■ Loadout - Rem Wst Site - 124-N-1												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year													
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
CFB0541B	Loadout - Rem	15	30JUL08	25AUG08	0	28JAN09	24FEB09	98	98														
CFB0541D	Closeout Smpg	159	26AUG08	11JUN09	159,776	25FEB09	08DEC09	98	98														
CFB0541C	Backfill - Rem	5	15JUN09	22JUN09	0	03JAN12	10JAN12	508	508														
CFB0541E	Revegetation -	1	23JUN09	23JUN09	0	09AUG12	09AUG12	626	626														
CFB0542 Remediate Waste Site - 1908-N																							
CFB0542A	Excavation	12	10JAN12	30JAN12	56,687	01JUN11	21JUN11	-120	-120														
CFB0542B	Loadout - Rem	12	07FEB12	28FEB12	17,773	29JUN11	20JUL11	-120	-120														
CFB0542D	Closeout Smpg	159	29FEB12	11DEC12	32,293	21JUL11	07MAY12	-120	-120														
CFB0542C	Backfill - Rem	4	12DEC12	18DEC12	15,797	08MAY12	14MAY12	-120	-120														
CFB0542E	Revegetation -	1	19DEC12	19DEC12	767	15MAY12	15MAY12	-120	-120														
CFB0543 Remediate Waste Site - 1908-NE (Bldg 1908-NE)																							
CFB0543A	Excavation	7	14JUL08	23JUL08	80,259	04FEB09	17FEB09	112	112														
CFB0543B	Loadout - Rem	7	11AUG08	20AUG08	10,447	05MAR09	17MAR09	112	112														
CFB0543D	Closeout Smpg	159	21AUG08	09JUN09	19,223	18MAR09	04JAN10	112	112														
CFB0543C	Backfill - Rem	3	21JUL09	23JUL09	12,807	16JAN12	18JAN12	495	495														
CFB0543E	Revegetation -	1	27JUL09	27JUL09	750	14AUG12	14AUG12	610	610														
CFB0544 Remediate Waste Site - 600-35																							
CFB0544A	Excavation	1	08JUL08	08JUL08	28,832	30JUL08	07AUG08	13	18														
CFB0544B	Loadout - Rem	6	05AUG08	13AUG08	3,385	27AUG08	08SEP08	13	13														
CFB0544D	Closeout Smpg	159	14AUG08	02JUN09	5,010	09SEP08	24JUN09	13	13														
CFB0544C	Backfill - Rem	2	03JUN09	04JUN09	2,927	04MAR10	08MAR10	149	149														
CFB0544E	Revegetation -	1	08JUN09	08JUN09	610	07JUN12	07JUN12	600	600														
CFB0545 Remediate Waste Site - UPR-100-N-1																							
CFB0545A	Excavation	1	07JUL08	07JUL08	0	28JUL08	06AUG08	12	18														
CFB0545B	Loadout - Rem	7	04AUG08	13AUG08	0	25AUG08	04SEP08	12	12														
CFB0545D	Closeout Smpg	159	14AUG08	02JUN09	0	08SEP08	23JUN09	12	12														
CFB0545C	Backfill - Rem	3	03JUN09	08JUN09	0	09NOV11	14NOV11	488	488														
CFB0545E	Revegetation -	1	09JUN09	09JUN09	0	30JUN11	30JUN11	412	412														
CFB0546 Remediate Waste Site - UPR-100-N-10																							
CFB0546A	Excavation	7	01OCT08	13OCT08	0	17MAR09	26MAR09	89	89														
CFB0546B	Loadout - Rem	7	29OCT08	10NOV08	0	14APR09	23APR09	89	89														
CFB0546D	Closeout Smpg	159	11NOV08	27AUG09	0	27APR09	10FEB10	89	89														
CFB0546E	Revegetation -	1	11NOV09	11NOV09	0	03JUL12	03JUL12	526	526														
CFB0546C	Backfill - Rem	3	23NOV09	30NOV09	0	24MAY10	26MAY10	98	98														

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year													
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
<b>CFB0547 Remediate Waste Site - UPR-100-N-11</b>																							
CFB0547A	Excavation	2	09JUL08	10JUL08	0	11AUG08	20AUG08	18	23														
CFB0547B	Loadout - Rem	7	06AUG08	18AUG08	0	09SEP08	18SEP08	18	18														
CFB0547D	Closeout Smpg	159	19AUG08	04JUN09	0	22SEP08	08JUL09	18	18														
CFB0547C	Backfill - Rem	3	08JUN09	10JUN09	0	09MAR10	11MAR10	149	149														
CFB0547E	Revegetation -	1	11JUN09	11JUN09	0	11JUN12	11JUN12	598	598														
<b>CFB0548 Remediate Waste Site - UPR-100-N-12</b>																							
CFB0548A	Excavation	7	18SEP08	30SEP08	0	04MAR09	16MAR09	89	89														
CFB0548B	Loadout - Rem	7	16OCT08	28OCT08	0	01APR09	13APR09	89	89														
CFB0548D	Closeout Smpg	159	29OCT08	17AUG09	0	14APR09	28JAN10	89	89														
CFB0548E	Revegetation -	1	12NOV09	12NOV09	0	05JUL12	05JUL12	526	526														
CFB0548C	Backfill - Rem	3	01DEC09	03DEC09	0	27MAY10	02JUN10	98	98														
<b>CFB0549 Remediate Waste Site - UPR-100-N-13</b>																							
CFB0549A	Excavation	1	07JUL08	07JUL08	250	22JUL08	29JUL08	9	13														
CFB0549B	Loadout - Rem	5	04AUG08	11AUG08	78	19AUG08	26AUG08	9	9														
CFB0549D	Closeout Smpg	159	12AUG08	28MAY09	142	27AUG08	15JUN09	9	9														
CFB0549C	Backfill - Rem	2	01JUN09	02JUN09	70	18OCT11	19OCT11	477	477														
CFB0549E	Revegetation -	1	03JUN09	03JUN09	3	18JUL12	18JUL12	624	624														
<b>CFB0550 Remediate Waste Site - UPR-100-N-14</b>																							
CFB0550A	Excavation	5	24JUL08	31JUL08	957	18FEB09	25FEB09	112	112														
CFB0550B	Loadout - Rem	5	21AUG08	28AUG08	300	18MAR09	25MAR09	112	112														
CFB0550D	Closeout Smpg	159	02SEP08	17JUN09	545	26MAR09	12JAN10	112	112														
CFB0550C	Backfill - Rem	2	27JUL09	28JUL09	267	19JAN12	23JAN12	495	495														
CFB0550E	Revegetation -	1	29JUL09	29JUL09	13	15AUG12	15AUG12	609	609														
<b>CFB0551 Remediate Waste Site - UPR-100-N-17</b>																							
CFB0551E	Revegetation -	4	19AUG09	25AUG09	7,785	02JUL12	09JUL12	572	572														
CFB0551C	Backfill - Rem	22	29FEB12	05APR12	160,269	25APR12	04JUN12	32	32														
<b>CFB0552 Remediate Waste Site - UPR-100-N-18</b>																							
CFB0552A	Excavation	1	15JUL08	15JUL08	6,597	28AUG08	08SEP08	26	30														
CFB0552B	Loadout - Rem	5	12AUG08	19AUG08	2,068	29SEP08	06OCT08	26	26														
CFB0552D	Closeout Smpg	159	20AUG08	08JUN09	3,758	07OCT08	23JUL09	26	26														
CFB0552C	Backfill - Rem	2	09JUN09	10JUN09	1,838	16MAR10	17MAR10	152	152														
CFB0552E	Revegetation -	1	11JUN09	11JUN09	89	13JUN12	13JUN12	600	600														
<b>CFB0553 Remediate Waste Site - UPR-100-N-19</b>																							
CFB0553A	Excavation	7	17MAR11	29MAR11	0	07JUL10	19JUL10	-138	-138														





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
CFB0560E	Revegetation -	1	08SEP11	08SEP11	24	12DEC11	12DEC11	51	51	Revegetation - Rem Wst Site - UPR-100-N-25												
CFB0561 Remediate Waste Site - UPR-100-N-26																						
CFB0561A	Excavation	5	20AUG08	27AUG08	2,310	09DEC08	16DEC08	60	60	Excavation Process - Rem Wst Site - UPR-100-N-26												
CFB0561B	Loadout - Rem	5	18SEP08	25SEP08	724	12JAN09	19JAN09	60	60	Loadout - Rem Wst Site - UPR-100-N-26												
CFB0561D	Closeout Smpg	159	29SEP08	15JUL09	1,316	20JAN09	29OCT09	60	60	Closeout Smpg - Rem Wst Site - UPR-100-N-26												
CFB0561C	Backfill - Rem	2	16JUL09	20JUL09	644	11JAN12	12JAN12	495	495	Backfill - Rem Wst Site - UPR-100-N-26												
CFB0561E	Revegetation -	1	21JUL09	21JUL09	31	13AUG12	13AUG12	612	612	Revegetation - Rem Wst Site - UPR-100-N-26												
CFB0562 Remediate Waste Site - UPR-100-N-29																						
CFB0562A	Excavation	7	01NOV10	10NOV10	0	25FEB10	09MAR10	-138	-138	Excavation Process - Rem Wst Site - UPR-100-												
CFB0562B	Loadout - Rem	7	01DEC10	13DEC10	0	25MAR10	06APR10	-138	-138	Loadout - Rem Wst Site - UPR-100-N-29												
CFB0562D	Closeout Smpg	159	14DEC10	28SEP11	0	07APR10	24JAN11	-138	-138	Closeout Smpg - Rem Wst Site - UPR-100-N-29												
CFB0562C	Backfill - Rem	3	04JAN12	09JAN12	0	16JAN12	18JAN12	6	6	Backfill - Rem Wst Site - UPR-100-N-29												
CFB0562E	Revegetation -	1	10JAN12	10JAN12	0	19JAN12	19JAN12	6	6	Revegetation - Rem Wst Site - UPR-100-N-29												
CFB0563 Remediate Waste Site - UPR-100-N-3																						
CFB0563A	Excavation	7	08SEP08	17SEP08	0	19FEB09	03MAR09	89	89	Excavation Process - Rem Wst Site - UPR-100-N-3												
CFB0563B	Loadout - Rem	7	06OCT08	15OCT08	0	19MAR09	31MAR09	89	89	Loadout - Rem Wst Site - UPR-100-N-3												
CFB0563D	Closeout Smpg	159	16OCT08	04AUG09	0	01APR09	18JAN10	89	89	Closeout Smpg - Rem Wst Site - UPR-100-N-3												
CFB0563E	Revegetation -	1	09NOV09	09NOV09	0	28JUN12	28JUN12	526	526	Revegetation - Rem Wst Site - UPR-100-N-3												
CFB0563C	Backfill - Rem	3	05NOV09	10NOV09	0	06MAY10	11MAY10	98	98	Backfill - Rem Wst Site - UPR-100-N-3												
CFB0564 Remediate Waste Site - UPR-100-N-30																						
CFB0564A	Excavation	1	02JUL08	02JUL08	0	15JUL08	24JUL08	6	12	Excavation Process - Rem Wst Site - UPR-100-N-30												
CFB0564B	Loadout - Rem	7	31JUL08	12AUG08	0	12AUG08	21AUG08	6	6	Loadout - Rem Wst Site - UPR-100-N-30												
CFB0564D	Closeout Smpg	159	13AUG08	01JUN09	0	25AUG08	10JUN09	6	6	Closeout Smpg - Rem Wst Site - UPR-100-N-30												
CFB0564C	Backfill - Rem	3	02JUN09	04JUN09	0	21NOV11	28NOV11	495	495	Backfill - Rem Wst Site - UPR-100-N-30												
CFB0564E	Revegetation -	1	08JUN09	08JUN09	0	06JUL11	06JUL11	415	415	Revegetation - Rem Wst Site - UPR-100-N-30												
CFB0565 Remediate Waste Site - UPR-100-N-31(with 16-N-1)																						
CFB0565A	Excavation	1	16JUL08	16JUL08	0	09SEP08	29DEC08	30	89	Excavation Process - Rem Wst Site - UPR-100-N-31												
CFB0565B	Loadout - Rem	60	13AUG08	01DEC08	0	07OCT08	27JAN09	30	30	Loadout - Rem Wst Site - UPR-100-N-31												
CFB0565D	Closeout Smpg	159	02DEC08	16SEP09	0	28JAN09	09NOV09	30	30	Closeout Smpg - Rem Wst Site - UPR-100-N-31												
CFB0565C	Backfill - Rem	21	17SEP09	22OCT09	0	18MAR10	22APR10	98	98	Backfill - Rem Wst Site - UPR-100-N-31												
CFB0565E	Revegetation -	4	26OCT09	29OCT09	0	14JUN12	20JUN12	526	526	Revegetation - Rem Wst Site - UPR-100-N-31												
CFB0566 Remediate Waste Site - UPR-100-N-32																						
CFB0566A	Excavation	7	28JUL08	06AUG08	0	08JAN09	20JAN09	89	89	Excavation Process - Rem Wst Site - UPR-100-N-32												
CFB0566B	Loadout - Rem	7	25AUG08	04SEP08	0	05FEB09	18FEB09	89	89	Loadout - Rem Wst Site - UPR-100-N-32												
CFB0566D	Closeout Smpg	159	08SEP08	23JUN09	0	19FEB09	02DEC09	89	89	Closeout Smpg - Rem Wst Site - UPR-100-N-32												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
CFB0573D	Closeout Smpg	159	01DEC10	15SEP11	16,324	25MAR10	11JAN11	-138	-138	Closeout Smpg - Rem Wst Site - UPR-100-N-5												
CFB0573C	Backfill - Rem	3	19SEP11	21SEP11	7,986	12DEC11	14DEC11	46	46	Backfill - Rem Wst Site - UPR-100-N-5												
CFB0573E	Revegetation -	1	22SEP11	22SEP11	388	15DEC11	15DEC11	46	46	Revegetation - Rem Wst Site - UPR-100-N-5												
CFB0574 Remediate Waste Site - UPR-100-N-6																						
CFB0574A	Excavation	1	08JUL08	08JUL08	5,431	29JUL08	05AUG08	12	16	Excavation Process - Rem Wst Site - UPR-100-N-6												
CFB0574B	Loadout - Rem	5	05AUG08	12AUG08	1,703	26AUG08	03SEP08	12	12	Loadout - Rem Wst Site - UPR-100-N-6												
CFB0574D	Closeout Smpg	159	13AUG08	01JUN09	3,094	04SEP08	22JUN09	12	12	Closeout Smpg - Rem Wst Site - UPR-100-N-6												
CFB0574C	Backfill - Rem	2	02JUN09	03JUN09	1,514	07MAR12	08MAR12	551	551	Backfill - Rem Wst Site - UPR-100-N-6												
CFB0574E	Revegetation -	1	04JUN09	04JUN09	74	12JUN12	12JUN12	603	603	Revegetation - Rem Wst Site - UPR-100-N-6												
CFB0575 Remediate Waste Site - UPR-100-N-7																						
CFB0575A	Excavation	13	14FEB11	08MAR11	85,862	03JUN10	24JUN10	-138	-138	Excavation Process - Rem Wst Site - UPR-100-N-7												
CFB0575B	Loadout - Rem	13	15MAR11	05APR11	26,921	01JUL10	26JUL10	-138	-138	Loadout - Rem Wst Site - UPR-100-N-7												
CFB0575D	Closeout Smpg	159	06APR11	23JAN12	48,914	27JUL10	11MAY11	-138	-138	Closeout Smpg - Rem Wst Site - UPR-100-N-7												
CFB0575E	Revegetation -	1	25JAN12	25JAN12	1,162	27MAR12	27MAR12	34	34	Revegetation - Rem Wst Site - UPR-100-N-7												
CFB0575C	Backfill - Rem	5	23FEB12	01MAR12	23,928	02APR12	09APR12	21	21	Backfill - Rem Wst Site - UPR-100-N-7												
CFB0576 Remediate Waste Site - UPR-100-N-8																						
CFB0576A	Excavation	1	09JUL08	09JUL08	916	06AUG08	13AUG08	16	20	Excavation Process - Rem Wst Site - UPR-100-N-8												
CFB0576B	Loadout - Rem	5	06AUG08	13AUG08	287	04SEP08	11SEP08	16	16	Loadout - Rem Wst Site - UPR-100-N-8												
CFB0576D	Closeout Smpg	159	14AUG08	02JUN09	522	15SEP08	30JUN09	16	16	Closeout Smpg - Rem Wst Site - UPR-100-N-8												
CFB0576C	Backfill - Rem	2	03JUN09	04JUN09	255	12MAR12	13MAR12	552	552	Backfill - Rem Wst Site - UPR-100-N-8												
CFB0576E	Revegetation -	1	08JUN09	08JUN09	12	13JUN12	13JUN12	603	603	Revegetation - Rem Wst Site - UPR-100-N-8												
CFB0577 Remediate Waste Site - UPR-100-N-9																						
CFB0577A	Excavation	5	02JUL08	10JUL08	3,163	27JAN09	03FEB09	112	112	Excavation Process - Rem Wst Site - UPR-100-N-9												
CFB0577B	Loadout - Rem	5	31JUL08	07AUG08	992	25FEB09	04MAR09	112	112	Loadout - Rem Wst Site - UPR-100-N-9												
CFB0577D	Closeout Smpg	159	11AUG08	27MAY09	1,802	05MAR09	16DEC09	112	112	Closeout Smpg - Rem Wst Site - UPR-100-N-9												
CFB0577C	Backfill - Rem	2	29JUL09	30JUL09	881	24JAN12	25JAN12	495	495	Backfill - Rem Wst Site - UPR-100-N-9												
CFB0577E	Revegetation -	1	03AUG09	03AUG09	43	16AUG12	16AUG12	608	608	Revegetation - Rem Wst Site - UPR-100-N-9												
CFB0578 Remediate Waste Site - 100-N-63																						
CFB0578A	Excavation	44	01OCT08*	18DEC08	293,634	01SEP10*	17NOV10	383	383	Excavation Process - Rem Wst Site - 100-N-63												
CFB0578B	Loadout - Rem	48	29OCT08	28JAN09	40,183	30SEP10	29DEC10	383	383	Loadout - Rem Wst Site - 100-N-63												
CFB0578D	Closeout Smpg	160	29JAN09	11NOV09	119,440	03JAN11	12OCT11	383	382	Closeout Smpg - Rem Wst Site - 100-N-63												
CFB0578C	Backfill - Rem	24	12NOV09	30DEC09	207,411	13OCT11	28NOV11	382	382	Backfill - Rem Wst Site - 100-N-63												
CFB0578E	Revegetation -	6	04JAN10	12JAN10	0	02JUL12	11JUL12	500	500	Revegetation - Rem Wst Site - 100-N-63												
CFB0579 Remediate Waste Site - 100-N-80																						
CFB0579A	Excavation	1	08JUL08	08JUL08	0	30JUL08	22OCT08	13	60	Excavation Process - Rem Wst Site - 100-N-80												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16
CFB0579B	Loadout - Rem	48	05AUG08	28OCT08	0	27AUG08	19NOV08	13	13												
CFB0579D	Closeout Smpg	159	29OCT08	17AUG09	0	20NOV08	09SEP09	13	13												
CFB0579C	Backfill - Rem	24	18AUG09	29SEP09	0	01NOV11	14DEC11	441	441												
CFB0579E	Revegetation -	6	30SEP09	08OCT09	0	24JUL12	01AUG12	561	561												
<b>IS ISS</b>																					
<b>BDA21 Iss-Interim Safe Storage</b>																					
0041.99938	TPA M-93-19	0		07SEP06A	0		30SEP09*	612	612												
<b>BDA2101 Interim Safe Storage - 105-N REACTOR (ISS)</b>																					
BDA2101A	Plan &	219	29AUG05A	13DEC07	2,287,586	03JUL06*	21MAR07	168	-148												
BDA2101B	Deact & Decom	418	21SEP06A	30SEP08	3,849,756	02OCT06	30OCT08	5	18												
BDA2101G	SSE - ISS -	152	28FEB11*	28NOV11	4,227,731	03JAN11	29SEP11	-31	-31												
BDA2101H	Closeout/Transit	48	29NOV11	27FEB12	837,366	03OCT11	29DEC11	-31	-31												
<b>BDA2102 D4 Building - 109N</b>																					
BDA2102A	Plan &	216	15AUG06A	30SEP08	532,841	03APR06*	30APR07	-75	-285												
BDA2102B	Deact & Decom	162	22JAN07A	30SEP09	8,696,663	02OCT06*	30SEP09	-59	0												
BDA2102C	Demolition	174	15DEC08*	26OCT09	5,676,332	28JUN07	23SEP10	-292	182												
BDA2102D	Demolition	129	10MAR09	26OCT09	3,168,381	28JUN07	23SEP10	-337	182												
BDA2102E2	SSE - 109N	152	28FEB11*	28NOV11	2,000,000	03JAN11	29SEP11	-31	-31												
<b>BDA2103 D4 Building - 1605NE</b>																					
BDA2103A	Plan &	7	19MAY09*	01JUN09	285	05JUL11*	26JUL11	424	430												
BDA2103B	Deact & Decom	7	27MAY09	08JUN09	3,481	12JUL11	15AUG11	424	437												
BDA2103C	Demolition	5	09JUN09	16JUN09	3,153	16AUG11	23AUG11	437	437												
BDA2103D	Demolition	8	17JUN09	30JUN09	0	24AUG11	07SEP11	437	437												
BDA2103E	Loadout -	10	23JUN09	09JUL09	997	30AUG11	15SEP11	437	437												
BDA2103F	Transition/Final	8	13JUL09	23JUL09	481	19SEP11	29SEP11	437	437												
<b>BDA2104 D4 Building - 1722N</b>																					
BDA2104A	Plan &	44	16JAN06A	27MAR06A	5,636	05SEP06*	09OCT06	129	109												
BDA2104B	Deact & Decom	23	05MAY09*	15JUN09	99,654	19SEP06	13NOV06	-524	-515												
BDA2104C	Demolition	8	16JUN09	29JUN09	28,639	14NOV06	29NOV06	-515	-515												
BDA2104D	Demolition	12	30JUN09	21JUL09	5,982	30NOV06	20DEC06	-515	-515												
BDA2104E	Loadout -	16	08JUL09	04AUG09	6,603	07DEC06	09JAN07	-515	-515												
BDA2104F	Transition/Final	12	05AUG09	25AUG09	3,548	10JAN07	30JAN07	-515	-515												
<b>BDA2105 D4 Building - 105NA</b>																					
BDA2105A	Plan &	25	08NOV05A	11APR07	1,270	10NOV10	29DEC10	1,000	742												
BDA2105B	Deact & Decom	7	02JUN09*	11JUN09	46,912	01DEC10	10FEB11	300	332												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
BDA2105C	Demolition	10	15JUN09	30JUN09	6,364	14FEB11	02MAR11	332	332													
BDA2105D	Demolition	15	01JUL09	28JUL09	1,356	03MAR11	29MAR11	332	332													
BDA2105E	Loadout -	20	13JUL09	13AUG09	1,458	14MAR11	14APR11	332	332													
BDA2105F	Transition/Final	15	17AUG09	10SEP09	829	18APR11	11MAY11	332	332													
<b>BDA2106 D4 Remaining Facilities - 105ND</b>																						
BDA2106A	Plan &	12	05MAR07A	05MAR07A	18	03DEC07*	20DEC07	151	162													
BDA2106B	Deact & Decom	19	06MAR07A	06MAR07A	2,409	11DEC07	16JAN08	155	173													
BDA2106C	Demolition	10	23AUG07*	11SEP07	4,801	17JAN08	24JAN08	78	73													
BDA2106D	Demolition	10	12SEP07	27SEP07	11	28JAN08	06FEB08	73	70													
BDA2106E	Loadout -	5	01OCT07	08OCT07	1,759	30JAN08	14FEB08	65	70													
BDA2106F	Transition/Final	6	09OCT07	17OCT07	467	19FEB08	28FEB08	70	71													
<b>100 AREA</b>																						
<b>DE Remedial Design</b>																						
CGD0101 Fld. Rem. - 100 Area Burial Design																						
CGD0101A	Design - 100	417	03OCT05A	27SEP07	172,621	29AUG05	27SEP07	-19	0													
CGD0102 Fld. Rem. - 100-IU-2 Remedial Action Design																						
CGD0102A	Design -	98	26MAR07*	17SEP07	0	02OCT06*	29MAR07	-94	-94													
CGD0103 Fld. Rem. - 100-IU-6 Remedial Action Design																						
CGD0103A	Design -	98	30JAN06A	27SEP07	36,982	02OCT06*	29MAR07	136	-101													
<b>DD D4</b>																						
AAR2501 D4-Non-Site Specific Support 100 Area																						
AAR2501A1	D4-100 Area	19	29AUG05A	01SEP05A	399,929	29AUG05	29SEP05	0	15													
<b>RA Field Remediation</b>																						
CGB0501 Remediate Waste Site - 600-176																						
CGB0501A	Excavation	5	26JUL11	02AUG11	1,297	25OCT06	01NOV06	-947	-947													
CGB0501B	Loadout - Rem	5	23AUG11	30AUG11	141	27NOV06	04DEC06	-947	-947													
CGB0501C	Backfill - Rem	2	31AUG11	01SEP11	341	05DEC06	06DEC06	-947	-947													
CGB0501D	Closeout Smpg	159	06SEP11	20JUN12	106	07DEC06	24SEP07	-947	-947													
CGB0501E	Revegetation -	1	21JUN12	21JUN12	74	25SEP07	25SEP07	-947	-947													
CGB0502 Remediate Waste Site - 600-182																						
CGB0502A	Excavation	5	05JUL11*	12JUL11	160	03OCT07	10OCT07	-748	-748													
CGB0502B	Loadout - Rem	5	02AUG11	09AUG11	17	31OCT07	07NOV07	-748	-748													
CGB0502C	Backfill - Rem	2	10AUG11	11AUG11	42	08NOV07	12NOV07	-748	-748													
CGB0502D	Closeout Smpg	159	15AUG11	30MAY12	13	13NOV07	28AUG08	-748	-748													
CGB0502E	Revegetation -	1	31MAY12	31MAY12	9	02SEP08	02SEP08	-748	-748													

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
CGC05 Fld. Rem.-Waste Sites.-100-IU-6											TPA M-16-56 Comp RA 100 IU2 and IU3											
0041.99919	TPA M-16-56	0		31DEC12*	0		31DEC08*	-798	-798													
CGC0501 Remediate Waste Site - 600-108 (incl 600-257)											Excavation Process - Rem Wst Site - 600-108 (incl 600-257)											
CGC0501A	Excavation	12	05JUL11*	25JUL11	42,788	02OCT06*	19OCT06	-949	-949	Loadout - Rem Wst Site - 600-108 (includes 600-257)												
CGC0501B	Loadout - Rem	12	02AUG11	22AUG11	6,827	30OCT06	16NOV06	-949	-949	Closeout Smpg - Rem Wst Site - 600-108 (includes 600-257)												
CGC0501D	Closeout Smpg	159	23AUG11	07JUN12	32,366	20NOV06	06SEP07	-949	-949	Backfill - Rem Wst Site - 600-108 (600-257)												
CGC0501C	Backfill - Rem	4	11JUN12	14JUN12	6,317	10SEP07	13SEP07	-949	-949	Revegetation - Rem Wst Site - 600-108 (includes 600-257)												
CGC0501E	Revegetation -	1	18JUN12	18JUN12	983	17SEP07	17SEP07	-949	-949													
CGC0502 Remediate Waste Site - 600-149											Excavation Process - Rem Wst Site - 600-149											
CGC0502A	Excavation	7	01OCT07*	10OCT07	27,001	17OCT06	26OCT06	-190	-190	Loadout - Rem Wst Site - 600-149												
CGC0502B	Loadout - Rem	7	29OCT07	07NOV07	2,933	14NOV06	28NOV06	-190	-190	Closeout Smpg - Rem Wst Site - 600-149												
CGC0502D	Closeout Smpg	159	08NOV07	26AUG08	2,198	29NOV06	13SEP07	-190	-190	Backfill - Rem Wst Site - 600-149												
CGC0502C	Backfill - Rem	3	27AUG08	02SEP08	7,106	17SEP07	19SEP07	-190	-190	Revegetation - Rem Wst Site - 600-149												
CGC0502E	Revegetation -	1	03SEP08	03SEP08	1,538	20SEP07	20SEP07	-190	-190													
CGC0503 Remediate Waste Site - 600-178											Excavation Process - Rem Wst Site - 600-178											
CGC0503A	Excavation	3	01AUG11	03AUG11	1,057,019	01OCT07*	03OCT07	-765	-765	Loadout - Rem Wst Site - 600-178												
CGC0503B	Loadout - Rem	3	29AUG11	31AUG11	0	29OCT07	31OCT07	-765	-765	Closeout Smpg - Rem Wst Site - 600-178												
CGC0503D	Closeout Smpg	159	01SEP11	19JUN12	11,181	01NOV07	19AUG08	-765	-765	Backfill - Rem Wst Site - 600-178												
CGC0503C	Backfill - Rem	1	20JUN12	20JUN12	0	20AUG08	20AUG08	-765	-765	Revegetation - Rem Wst Site - 600-178												
CGC0503E	Revegetation -	1	21JUN12	21JUN12	0	21AUG08	21AUG08	-765	-765													
CGC0504 Remediate Waste Site - 600-186											Excavation Process - Rem Wst Site - 600-186											
CGC0504A	Excavation	4	01AUG11	04AUG11	0	09OCT07	15OCT07	-760	-760	Loadout - Rem Wst Site - 600-186												
CGC0504B	Loadout - Rem	4	29AUG11	01SEP11	0	06NOV07	12NOV07	-760	-760	Closeout Smpg - Rem Wst Site - 600-186												
CGC0504D	Closeout Smpg	159	06SEP11	20JUN12	16,231	13NOV07	28AUG08	-760	-760	Backfill - Rem Wst Site - 600-186												
CGC0504C	Backfill - Rem	1	21JUN12	21JUN12	0	02SEP08	02SEP08	-760	-760	Revegetation - Rem Wst Site - 600-186												
CGC0504E	Revegetation -	1	25JUN12	25JUN12	0	03SEP08	03SEP08	-760	-760													
CGC0505 Remediate Waste Site - 600-213											Excavation Process - Rem Wst Site - 600-213											
CGC0505A	Excavation	5	03AUG11	10AUG11	7,458	11OCT07	18OCT07	-760	-760	Loadout - Rem Wst Site - 600-213												
CGC0505B	Loadout - Rem	5	31AUG11	08SEP11	1,268	08NOV07	15NOV07	-760	-760	Closeout Smpg - Rem Wst Site - 600-213												
CGC0505D	Closeout Smpg	159	12SEP11	26JUN12	6,671	19NOV07	04SEP08	-760	-760	Backfill - Rem Wst Site - 600-213												
CGC0505C	Backfill - Rem	2	27JUN12	28JUN12	925	08SEP08	09SEP08	-760	-760	Revegetation - Rem Wst Site - 600-213												
CGC0505E	Revegetation -	1	02JUL12	02JUL12	120	10SEP08	10SEP08	-760	-760													
CGC0506 Remediate Waste Site - 600-3											Excavation Process - Rem Wst Site - 600-3											
CGC0506A	Excavation	96	01NOV10*	26APR11	175,806	15MAR07*	04SEP07	-727	-727	Loadout - Rem Wst Site - 600-3												
CGC0506B	Loadout - Rem	96	01DEC10	24MAY11	127,282	12APR07	02OCT07	-727	-727													

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year														
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16			
CGC0506D	Closeout Smpg	159	25MAY11	13MAR12	86,038	03OCT07	21JUL08	-727	-727															
CGC0506C	Backfill - Rem	34	14MAR12	10MAY12	278,171	22JUL08	18SEP08	-727	-727															
CGC0506E	Revegetation -	7	14MAY12	23MAY12	60,198	22SEP08	01OCT08	-727	-727															
CGC0507 Remediate Waste Site - 600-239																								
CGC0507A	Excavation	48	22SEP11*	19DEC11	0	05MAY08*	29JUL08	-677	-677															
CGC0507B	Loadout - Rem	48	20OCT11	19JAN12	0	03JUN08	26AUG08	-677	-677															
CGC0507C	Backfill - Rem	24	23JAN12	05MAR12	0	27AUG08	08OCT08	-677	-677															
CGC0507D	Closeout Smpg	18	06MAR12	04APR12	0	09OCT08	10NOV08	-677	-677															
CGC0507E	Revegetation -	6	05APR12	16APR12	0	11NOV08	19NOV08	-677	-677															
CGC0508 Remediate Waste Site - 600-146																								
CGC0508A	Excavation	2	03OCT11*	04OCT11	31,088	05MAY08*	06MAY08	-682	-682															
CGC0508B	Loadout - Rem	48	31OCT11	30JAN12	3,653	03JUN08	26AUG08	-682	-682															
CGC0508D	Closeout Smpg	18	31JAN12	01MAR12	19,223	27AUG08	29SEP08	-682	-682															
CGC0508C	Backfill - Rem	24	05MAR12	12APR12	6,714	30SEP08	10NOV08	-682	-682															
CGC0508E	Revegetation -	6	16APR12	24APR12	449	11NOV08	19NOV08	-682	-682															
CGC0509 Remediate Waste Site - 600-280																								
CGC0509A	Excavation	48	22SEP11*	19DEC11	36,959	18JUN07*	11SEP07	-853	-853															
CGC0509B	Loadout - Rem	48	20OCT11	19JAN12	14,612	17JUL07	09OCT07	-853	-853															
CGC0509D	Closeout Smpg	159	23JAN12	31OCT12	19,223	10OCT07	28JUL08	-853	-853															
CGC0509C	Backfill - Rem	24	01NOV12	17DEC12	19,547	29JUL08	09SEP08	-853	-853															
CGC0509E	Revegetation -	6	18DEC12	31DEC12	1,017	10SEP08	18SEP08	-853	-853															
CGC0510 Remediate Waste Site - 600-5																								
CGC0510A	Excavation	48	03OCT11*	29DEC11	29,435	26JUN07	19SEP07	-853	-853															
CGC0510B	Loadout - Rem	48	19OCT11	18JAN12	7,306	25JUL07	17OCT07	-847	-847															
CGC0510D	Closeout Smpg	159	19JAN12	30OCT12	38,446	18OCT07	05AUG08	-847	-847															
CGC0510C	Backfill - Rem	24	31OCT12	13DEC12	3,746	06AUG08	17SEP08	-847	-847															
CGC0510E	Revegetation -	6	17DEC12	27DEC12	741	18SEP08	29SEP08	-847	-847															
CGC0511 Remediate Waste Site - 600-100																								
CGC0511A	Excavation	48	03OCT11	29DEC11	26,480	05JUL07	27SEP07	-848	-848															
CGC0511B	Loadout - Rem	48	19OCT11	18JAN12	7,306	02AUG07	25OCT07	-842	-842															
CGC0511D	Closeout Smpg	159	19JAN12	30OCT12	47,325	29OCT07	13AUG08	-842	-842															
CGC0511C	Backfill - Rem	24	31OCT12	13DEC12	5,728	14AUG08	25SEP08	-842	-842															
CGC0511E	Revegetation -	6	17DEC12	27DEC12	3,671	29SEP08	07OCT08	-842	-842															
CGC0512 Remediate Waste Site - 600-109																								
CGC0512A	Excavation	48	03OCT11	29DEC11	1,062,104	16JUL07	08OCT07	-843	-843															



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
<b>CGC0518 Remediate Waste Site - 600-188</b>																						
CGC0518A	Excavation	48	03OCT11	29DEC11	18,894	06SEP07	03DEC07	-813	-813													
CGC0518B	Loadout - Rem	48	19OCT11	18JAN12	3,653	04OCT07	03JAN08	-807	-807													
CGC0518D	Closeout Smpplg	159	19JAN12	30OCT12	23,789	07JAN08	15OCT08	-807	-807													
CGC0518C	Backfill - Rem	24	31OCT12	13DEC12	2,923	16OCT08	01DEC08	-807	-807													
CGC0518E	Revegetation -	6	17DEC12	27DEC12	1,693	02DEC08	10DEC08	-807	-807													
<b>CGC0519 Remediate Waste Site - 600-202</b>																						
CGA0302A	Excavation	48	22SEP11*	19DEC11	295,382	17SEP07	11DEC07	-803	-803													
CGA0302B	Loadout - Rem	48	20OCT11	19JAN12	200,917	15OCT07	14JAN08	-803	-803													
CGA0302D	Closeout Smpplg	159	23JAN12	31OCT12	466,696	15JAN08	23OCT08	-803	-803													
CGA0302C	Backfill - Rem	24	01NOV12	17DEC12	288,728	27OCT08	09DEC08	-803	-803													
CGA0302E	Revegetation -	6	18DEC12	31DEC12	7,453	10DEC08	18DEC08	-803	-803													
<b>CGC0520 Remediate Waste Site - 600-205</b>																						
CGA0303A	Excavation	48	13JUL11	05OCT11	16,229	25SEP07	19DEC07	-758	-758													
CGA0303B	Loadout - Rem	48	10AUG11	02NOV11	3,653	23OCT07	22JAN08	-758	-758													
CGA0303D	Closeout Smpplg	159	03NOV11	21AUG12	372,905	23JAN08	03NOV08	-758	-758													
CGA0303C	Backfill - Rem	24	22AUG12	03OCT12	2,197	04NOV08	17DEC08	-758	-758													
CGA0303E	Revegetation -	6	04OCT12	15OCT12	274	18DEC08	31DEC08	-758	-758													
<b>CGR2501 Fld. Rem.-100 Area RS Non Site Specific Support</b>																						
CGR2501A1	Fld. Rem.-100	199	29AUG05A	28SEP06A	228,610	02OCT06*	27SEP07	218	199													
CGR2501A2	Fld. Rem.-100	263	04OCT10*	30JAN12	4,666,698	01OCT07	30SEP08	-601	-663													
CGR2501A3	Fld. Rem.-100	200	31JAN12	29JAN13	596,265	01OCT08	30SEP09	-663	-663													
<b>200 AREA C</b>																						
<b>IS ISS</b>																						
BSA2901 Iss-Management and Support																						
BSA2901A1	ISS-Management	19	07NOV05A	02FEB06A	175,084	29AUG05	29SEP05	-39	-67													
<b>200 AREA E</b>																						
<b>WO Waste Operations</b>																						
DAA3001 Waste Ops - ERDF Construction Cells 7 & 8																						
ROCAS010	Design Cells	128	29AUG05A	23APR07	762,319	04SEP07*	23APR08	402	201													
ROCAS020	Procure Cells	62	14MAR07A	05JUL07	76,232	24APR08	21JUL08	224	208													
ROCAS030	Construct Cells	286	09JUL07	08DEC08	14,831,594	22JUL08	01OCT09	208	164													
ROCAS030M	Complete	0		08DEC08	0		01OCT09	164	164													
DAA3002 Waste Ops - ERDF Construction Cells 9 & 10																						
ROCAT010	Design Cells	106	02OCT06A	23APR07	406,570	03AUG11*	26MAR12	966	983													
ROCAT020	Procure Cells	62	14MAR07A	05JUL07	40,657	27MAR12	19JUN12	1,006	990													



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
DAA3075 Waste Ops - ERDF Construction Support																						
ROCAA010	Construction	417	29AUG05A	09DEC08	1,700,115	04SEP07	01OCT09	402	163	Construction Support Cells 7/8												
DAC3701 Waste Ops-Transportation Routes/Methods																						
ROTKK010	300/600 Area	27	03OCT05A	22MAR07A	167,954	01OCT08*	31MAR09	599	404	300/600 Area Haul Road Design												
ROTKK030	Procure	1,049	14NOV06A	22MAR07A	78,364	01APR09	29JUN09	473	454	Procure 300/600 Area Haul Road												
ROTKK060	Construct	1,099	12JUN06A	22MAR07A	644,307	30JUN09	29JUN10	610	654	Construct 300/600 Area Haul Road												
DAD3B01 Waste Ops-Closure Cells 3 & 4																						
ROXNQ010	Design & Const	96	13FEB06A	27SEP07	639,777	03APR06*	20SEP06	27	-204	Design & Const Interim Cover Cells 3&4												
DAD3B75 Closure Support - Interim Cover Cells																						
ROXNN010	Closure	96	05JUL07*	27DEC07	0	03APR06	20SEP06	-252	-252	Closure Support - Interim Cover Cells 3&4												
DSA2901 Waste Ops-Management and Support																						
RMMOO010	Waste Ops	199	03JAN06A	28SEP06A	343,826	03OCT05	28SEP06	-48	0	Waste Ops Direct Project Support - FY06												
DSB2901 Waste Ops-Field Operations Support																						
RMFPP005	Waste Ops	19	15SEP05A	15SEP05A	55,137	29AUG05	29SEP05	-10	8	Waste Ops Field Operations Support - FY05												
RMFPP070	Waste Ops	199	29AUG05A	27SEP12	1,925,620	03OCT11	27SEP12	1,217	0	Waste Ops Field Operations Support - FY05												
<b>300 AREA 300 Area</b>																						
<b>DE Remedial Design</b>																						
CMC0101 fld. Rem.-300 Area RS Design																						
CMC0101A	fld. Rem.-300	818	03OCT05A	05JUN08	3,501,240	29AUG05	30SEP09	-19	264	fld. Rem.-300 Area RS Design												
<b>DD D4</b>																						
ACA0701 D4 Building - 324 and Assoc Structs (WS 300-25)																						
ACA0701A	Plan &	203	26SEP05A	28SEP06A	248,655	29AUG05	03OCT06	-15	2	Plan & Document - 324 and Associated Structures												
ACA0701B	Deact & Decom	199	03OCT05A	30SEP09	15,230,903	05SEP06*	26FEB09	184	-120	Deact & Decom - 324 and Associated Structures												
ACA0701D	Demolition	48	01OCT09	30DEC09	83,992	23SEP09	22SEP10	-5	147	Demolition Below Grade - 324 and Associated Structures												
ACA0701C	Demolition	96	01OCT09	29MAR10	8,308,480	29DEC08	23JUN10	-154	49	Demolition Above Grade - 324 and Associated Structures												
ACA0701E	Loadout - 324	170	29OCT09	07SEP10	416,692	27JAN09	22SEP10	-154	9	Loadout - 324 and Associated Structures (incl in D4 324)												
ACA0701N	Complete	0		07SEP10	0		22SEP10	9	9	Complete Building 324 Demolition												
ACA0701F	Transition/Final	30	08SEP10	28OCT10	108,800	23SEP10	23MAY11	9	111	Transition/Final Closure - 324 and Associated Structures												
ACA0702 D4 Building - 324A																						
ACA0702A	Plan &	220	26MAR07	28APR08	0	29AUG05	03OCT06	-312	-312	Plan & Document - 324A (Cost included in D4 324)												
ACA0702B	Deact & Decom	70	28MAY09	30SEP09	0	20OCT08	26FEB09	-120	-120	Deact & Decom - 324A (Cost included in D4 324)												
ACA0702C	Demolition	32	01OCT09	30NOV09	0	02MAR09	23APR09	-120	-120	Demolition Above Grade - 324A (incl in D4 324)												
ACA0702D	Demolition	16	01DEC09	30DEC09	0	27APR09	21MAY09	-120	-120	Demolition Below Grade - 324A (incl in D4 324)												
ACA0702E	Loadout - 324A	49	08OCT09	11JAN10	0	09MAR09	02JUN09	-120	-120	Loadout - 324A (Cost included in D4 324)												
ACA0702F	Transition/Final	132	08SEP10	05MAY11	0	23SEP10	23MAY11	9	9	Transition/Final Closure - 324A (incl in D4 324)												





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
ADA01 D4-300 Area Sites																						
0041.99970	M-94-06 Compl	0		31DEC07*	0		27DEC07*	-1	-1	◆M-94-06 Compl Removal 3/19 High Priority Facils												
ADA0701 D4 Building - 3225																						
ADA0701B	Deact & Decom	28	24OCT05A	10NOV05A	8,100	16JAN06	06MAR06	43	59	■Deact & Decom - 3225												
ADA0701C	Demolition	7	24OCT05A	10NOV05A	7,860	07MAR06	16MAR06	71	66	■Demolition Above Grade - 3225												
ADA0701D	Demolition	10	24OCT05A	10NOV05A	310	20MAR06	04APR06	78	76	■Demolition Below Grade - 3225												
ADA0701E	Loadout - 3225	14	01NOV05A	10NOV05A	2,448	23MAR06	17APR06	76	83	■Loadout - 3225												
ADA0701A	Plan &	17	03OCT05A	30NOV05A	1,044	03JAN06*	31JAN06	48	32	■Plan & Document - 3225												
ADA0701F	Transition/Final	10	04SEP07*	19SEP07	1,180	18APR06	03MAY06	-276	-276	■Transition/Final Closure - 3225												
ADA0702 D4 Building - 332																						
ADA0702A	Plan &	13	02JUN10*	23JUN10	1,307	01JUL10*	26JUL10	17	17	■Plan & Document - 332												
ADA0702B	Deact & Decom	20	10JUN10	15JUL10	9,700	13JUL10	16AUG10	17	17	■Deact & Decom - 332												
ADA0702C	Demolition	5	19JUL10	26JUL10	9,413	17AUG10	24AUG10	17	17	■Demolition Above Grade - 332												
ADA0702D	Demolition	8	27JUL10	09AUG10	371	25AUG10	08SEP10	17	17	■Demolition Below Grade - 332												
ADA0702E	Loadout - 332	10	02AUG10	17AUG10	2,932	31AUG10	16SEP10	17	17	■Loadout - 332												
ADA0702F	Transition/Final	8	18AUG10	31AUG10	1,414	20SEP10	30SEP10	17	17	■Transition/Final Closure - 332												
ADA0703 D4 Building - 334																						
ADA0703A	Plan &	35	29AUG05A	27OCT05A	1,826	29AUG05	27SEP05	0	-18	■Plan & Document - 334												
ADA0703B	Deact & Decom	9	24OCT05A	22NOV05A	39,483	12SEP05	25OCT05	-24	-16	■Deact & Decom - 334												
ADA0703C	Demolition	19	03NOV05A	07DEC05A	11,371	26OCT05	07NOV05	-5	-16	■Demolition Above Grade - 334												
ADA0703D	Demolition	5	01MAY08*	08MAY08	2,385	08NOV05	28NOV05	-494	-489	■Demolition Below Grade - 334												
ADA0703E	Loadout - 334	13	07NOV05A	21MAY08	2,458	15NOV05	08DEC05	5	-489	■Loadout - 334												
ADA0703F	Transition/Final	20	22MAY08	26JUN08	1,323	12DEC05	29DEC05	-489	-499	■Transition/Final Closure - 334												
ADA0704 D4 Building - 334A																						
ADA0704A	Plan &	17	21SEP05A	18OCT05A	5,964	29AUG05	27SEP05	-13	-12	■Plan & Document - 334A												
ADA0704B	Deact & Decom	26	24OCT05A	22NOV05A	151,613	12SEP05	25OCT05	-24	-16	■Deact & Decom - 334A												
ADA0704C	Demolition	7	03NOV05A	07DEC05A	32,605	26OCT05	07NOV05	-5	-16	■Demolition Above Grade - 334A												
ADA0704D	Demolition	10	03NOV05A	07DEC05A	6,839	08NOV05	28NOV05	2	-6	■Demolition Below Grade - 334A												
ADA0704E	Loadout - 334A	13	07DEC05A	08DEC05A	7,049	15NOV05	08DEC05	-11	0	■Loadout - 334A												
ADA0704F	Transition/Final	20	25JUN08*	30JUL08	3,794	12DEC05	29DEC05	-507	-517	■Transition/Final Closure - 334A												
ADA0705 D4 Building - 3727																						
ADA0705A	Plan &	20	07JUN10*	12JUL10	5,959	25JUL11*	15AUG11	226	219	■Plan & Document - 3727												
ADA0705B	Deact & Decom	20	15JUN10	20JUL10	74,471	02AUG11	06SEP11	226	226	■Deact & Decom - 3727												
ADA0705C	Demolition	5	21JUL10	28JUL10	32,237	07SEP11	14SEP11	226	226	■Demolition Above Grade - 3727												
ADA0705D	Demolition	8	29JUL10	11AUG10	6,761	15SEP11	28SEP11	226	226	■Demolition Below Grade - 3727												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Timeline (FY05-FY16)												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
ADA0711E	Loadout - 303F	10	29MAR06A	11JUN08	1,931	28NOV06	13DEC06	134	-298	Loadout - 303F												
ADA0711F	Transition/Final	20	12JUN08	17JUL08	2,855	14DEC06	28DEC06	-298	-311	Transition/Final Closure - 303F												
ADA0712 D4 Building - 303G																						
ADA0712B	Deact & Decom	4	24JAN06A	02FEB06A	30,147	10OCT06	09NOV06	144	156	Deact & Decom - 303G												
ADA0712A	Plan &	42	21NOV05A	08FEB06A	8,706	02OCT06	19OCT06	171	141	Plan & Document - 303G												
ADA0712C	Demolition	5	09FEB06A	09FEB06A	16,243	13NOV06	20NOV06	153	157	Demolition Above Grade - 303G												
ADA0712D	Demolition	11	01AUG07*	20AUG07	2,730	21NOV06	05DEC06	-137	-141	Demolition Below Grade - 303G												
ADA0712E	Loadout - 303G	1	13FEB06A	28AUG07	1,931	28NOV06	13DEC06	159	-141	Loadout - 303G												
ADA0712F	Transition/Final	20	11AUG08*	15SEP08	2,855	14DEC06	28DEC06	-330	-343	Transition/Final Closure - 303G												
ADA0713 D4 Building - 303J																						
ADA0713B	Deact & Decom	24	09JAN06A	16FEB06A	242,123	16JUL09	01SEP09	705	708	Deact & Decom - 303J												
ADA0713C	Demolition	5	07MAR06A	08MAR06A	45,771	02SEP09	15SEP09	700	705	Demolition Above Grade - 303J												
ADA0713A	Plan &	35	19DEC05A	09MAR06A	24,389	06JUL09	03AUG09	707	680	Plan & Document - 303J												
ADA0713D	Demolition	5	04JUN09*	11JUN09	7,692	16SEP09	01OCT09	57	62	Demolition Below Grade - 303J												
ADA0713E	Loadout - 303J	1	08MAR06A	24JUN09	5,441	22SEP09	14OCT09	709	62	Loadout - 303J												
ADA0713F	Transition/Final	12	25JUN09*	16JUL09	8,045	15OCT09	02NOV09	62	60	Transition/Final Closure - 303J												
ADA0714 D4 Building - 303M																						
ADA0714A	Plan &	101	29AUG05A	19JAN06A	13,944	29AUG05	02NOV05	0	-40	Plan & Document - 303M												
ADA0714C	Demolition	25	09MAR06A	22MAR06A	26,257	17JAN06	09FEB06	-29	-22	Demolition Above Grade - 303M												
ADA0714B	Deact & Decom	50	21DEC05A	23MAR06A	229,028	26SEP05	16JAN06	-48	-38	Deact & Decom - 303M												
ADA0714M	Complete	0		13JUN06A	0		09FEB06	-68	-68	Complete Building 303M Above Grade Demolition												
ADA0714D	Demolition	5	01AUG07*	08AUG07	4,413	13FEB06	23MAR06	-294	-276	Demolition Below Grade - 303M												
ADA0714E	Loadout - 303M	30	22MAR06A	05SEP07	3,121	28FEB06	19APR06	-13	-276	Loadout - 303M												
ADA0714F	Transition/Final	10	06SEP07	24SEP07	4,615	20APR06	31MAY06	-276	-263	Transition/Final Closure - 303M												
ADA0715 D4 Building - 304 (See Also Waste Site 300-249)																						
ADA0715B	Deact & Decom	7	24JAN06A	02FEB06A	84,067	16OCT08	18NOV08	548	560	Deact & Decom - 304 (incl WS 300-249)												
ADA0715A	Plan &	26	03JAN06A	15FEB06A	8,638	08OCT08	28OCT08	555	541	Plan & Document - 304 (incl WS 300-249)												
ADA0715C	Demolition	4	21FEB06A	23FEB06A	15,892	19NOV08	01DEC08	552	554	Demolition Above Grade - 304 (incl WS 300-249)												
ADA0715E	Loadout - 304	9	01MAR06A	02MAR06A	1,889	08DEC08	22DEC08	555	562	Loadout - 304 (includes Waste Site 300-249)												
ADA0715D	Demolition	5	23JUN08*	30JUN08	2,671	02DEC08	11DEC08	89	91	Demolition Below Grade - 304 (incl WS 300-249)												
ADA0715F	Transition/Final	20	07AUG08*	11SEP08	2,793	23DEC08	07JAN09	75	62	Transition/Final Closure - 304 (incl WS 300-249)												
ADA0716 D4 Building - 304A																						
ADA0716B	Deact & Decom	19	24JAN06A	02FEB06A	16,323	16OCT08	18NOV08	548	560	Deact & Decom - 304A												
ADA0716A	Plan &	4	09JAN06A	15FEB06A	1,297	08OCT08	28OCT08	552	541	Plan & Document - 304A												
ADA0716C	Demolition	5	21FEB06A	23FEB06A	7,066	19NOV08	01DEC08	552	554	Demolition Above Grade - 304A												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Timeline																		
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16							
ADA0716D	Demolition	5	23JUN08	30JUN08	1,482	02DEC08	11DEC08	89	91																			
ADA0716E	Loadout - 304A	9	01MAR06A	09JUL08	1,528	08DEC08	22DEC08	555	91																			
ADA0716F	Transition/Final	20	07AUG08	11SEP08	822	23DEC08	07JAN09	75	62																			
ADA0717 D4 Building - 305																												
ADA0717A	Plan &	143	17JAN06A	24JUL06A	103,392	05SEP06*	31OCT06	128	56																			
ADA0717B	Deact & Decom	20	19JUN06A	17AUG06A	991,159	26JUN08*	30SEP08	405	423																			
ADA0717C	Demolition	8	28AUG06A	05SEP06A	166,852	01OCT08	22OCT08	419	427																			
ADA0717D	Demolition	10	23OCT06A	07DEC06A	0	23OCT08	01DEC08	401	395																			
ADA0717E	Loadout - 305	11	12SEP06A	21DEC06A	31,294	04NOV08	23DEC08	430	400																			
ADA0717F	Transition/Final	15	08SEP09*	01OCT09	3,014	29DEC08	02FEB09	-140	-135																			
ADA0718 D4 Building - 305A																												
ADA0718A	Plan &	33	26MAR09*	21MAY09	337	05SEP06	31OCT06	-510	-510																			
ADA0718B	Deact & Decom	53	20APR09	22JUL09	7,278	27SEP06	04JAN07	-510	-510																			
ADA0718C	Demolition	13	23JUL09	13AUG09	2,523	08JAN07	29JAN07	-510	-510																			
ADA0718D	Demolition	20	17AUG09	21SEP09	424	30JAN07	06MAR07	-510	-510																			
ADA0718E	Loadout - 305A	27	26AUG09	13OCT09	300	08FEB07	28MAR07	-510	-510																			
ADA0718F	Transition/Final	20	14OCT09	17NOV09	444	29MAR07	02MAY07	-510	-510																			
ADA0719 D4 Building - 305B																												
ADA0719A	Plan &	1	19JUN06A	17AUG06A	54,205	01OCT07*	19NOV07	257	251																			
ADA0719B	Deact & Decom	41	17JUL06A	24AUG06A	921,164	22OCT07	16JUL09	254	577																			
ADA0719C	Demolition	1	21AUG06A	24AUG06A	93,050	20JUL09	06AUG09	581	589																			
ADA0719D	Demolition	16	05OCT06A	02NOV06A	45,543	10AUG09	08SEP09	567	567																			
ADA0719E	Loadout - 305B	18	12SEP06A	06NOV06A	17,624	19AUG09	29SEP09	587	578																			
ADA0719F	Transition/Final	15	08SEP09	01OCT09	11,719	30SEP09	28OCT09	13	15																			
ADA0720 D4 Building - 305-BA																												
ADA0720A	Plan &	16	02OCT06A	09OCT06A	926	20JUL09	13AUG09	558	569																			
ADA0720B	Deact & Decom	25	02OCT06A	09OCT06A	20,035	29JUL09	10SEP09	564	584																			
ADA0720C	Demolition	6	10OCT06A	10OCT06A	7,012	14SEP09	22SEP09	584	589																			
ADA0720D	Demolition	9	11OCT06A	17OCT06A	277	23SEP09	07OCT09	589	594																			
ADA0720E	Loadout -	13	17OCT06A	17OCT06A	2,184	28SEP09	19OCT09	588	600																			
ADA0720F	Transition/Final	15	07SEP10*	30SEP10	1,053	20OCT09	03NOV09	-175	-181																			
ADA0721 D4 Building - 305P																												
ADA0721A	Plan &	8	04MAY09*	14MAY09	111	20JUL09*	30JUL09	42	42																			
ADA0721B	Deact & Decom	12	07MAY09	28MAY09	0	23JUL09	12AUG09	42	42																			
ADA0721C	Demolition	3	01JUN09	03JUN09	0	13AUG09	18AUG09	42	42																			



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
ADA0731C	Demolition	82	29AUG05A	05DEC05A	280,400	17JAN06	09FEB06	75	36	■ Demolition Above Grade - 314 (incl WS 300-218)												
ADA0731E	Loadout - 314	30	04OCT05A	26JAN06A	55,360	28FEB06	19APR06	78	46	■ Loadout - 314 (includes Waste Site 300-218)												
ADA0731D	Demolition	20	04JUN08*	09JUL08	0	13FEB06	23MAR06	-462	-459	■ Demolition Below Grade - 314 (incl WS 300-218)												
ADA0731F	Transition/Final	20	10JUL08	13AUG08	5,332	20APR06	31MAY06	-444	-441	■ Transition/Final Closure - 314 (incl WS 300-218)												
ADA0732 D4 Building - 314B																						
ADA0732A	Plan &	38	29AUG05A	29SEP05A	4,429	29AUG05	02NOV05	0	19	■ Plan & Document - 314B												
ADA0732B	Deact & Decom	60	29AUG05A	29SEP05A	52,930	26SEP05	16JAN06	15	56	■ Deact & Decom - 314B												
ADA0732C	Demolition	15	29AUG05A	29SEP05A	30,066	17JAN06	09FEB06	75	71	■ Demolition Above Grade - 314B												
ADA0732D	Demolition	23	29AUG05A	29SEP05A	6,638	13FEB06	23MAR06	90	94	■ Demolition Below Grade - 314B												
ADA0732E	Loadout - 314B	30	29AUG05A	02APR07	6,842	28FEB06	19APR06	98	-189	■ Loadout - 314B												
ADA0732F	Transition/Final	20	10JUL12*	13AUG12	3,682	20APR06	31MAY06	-1,242	-1,239	■ Transition/Final Closure - 314B												
ADA0733 D4 Building - 315A																						
ADA0733A	Plan &	60	03JAN12*	17APR12	13,250	09FEB12	15MAR12	22	-18	■ Plan & Document - 315A												
ADA0733B	Deact & Decom	32	18APR12	13JUN12	21,342	27FEB12	19APR12	-30	-30	■ Deact & Decom - 315A												
ADA0733C	Demolition	8	14JUN12	27JUN12	1,336	23APR12	03MAY12	-30	-30	■ Demolition Above Grade - 315A												
ADA0733D	Demolition	12	28JUN12	19JUL12	49,577	07MAY12	24MAY12	-30	-30	■ Demolition Below Grade - 315A												
ADA0733E	Loadout - 315A	16	09JUL12	02AUG12	6,691	14MAY12	11JUN12	-30	-30	■ Loadout - 315A												
ADA0733F	Transition/Final	12	06AUG12	23AUG12	14,271	12JUN12	02JUL12	-30	-30	■ Transition/Final Closure - 315A												
ADA0734 D4 Building - 315B																						
ADA0734A	Plan &	60	03JAN12	17APR12	1,173	09FEB12	15MAR12	22	-18	■ Plan & Document - 315B												
ADA0734B	Deact & Decom	32	18APR12	13JUN12	11,279	27FEB12	19APR12	-30	-30	■ Deact & Decom - 315B												
ADA0734C	Demolition	8	14JUN12	27JUN12	2,016	23APR12	03MAY12	-30	-30	■ Demolition Above Grade - 315B												
ADA0734D	Demolition	12	28JUN12	19JUL12	353	07MAY12	24MAY12	-30	-30	■ Demolition Below Grade - 315B												
ADA0734E	Loadout - 315B	16	09JUL12	02AUG12	599	14MAY12	11JUN12	-30	-30	■ Loadout - 315B												
ADA0734F	Transition/Final	12	06AUG12	23AUG12	671	12JUN12	02JUL12	-30	-30	■ Transition/Final Closure - 315B												
ADA0735 D4 Building - 315C																						
ADA0735A	Plan &	60	03JAN12	17APR12	3,758	09FEB12	15MAR12	22	-18	■ Plan & Document - 315C												
ADA0735B	Deact & Decom	32	18APR12	13JUN12	4,686	27FEB12	19APR12	-30	-30	■ Deact & Decom - 315C												
ADA0735C	Demolition	8	14JUN12	27JUN12	15,898	23APR12	03MAY12	-30	-30	■ Demolition Above Grade - 315C												
ADA0735D	Demolition	12	28JUN12	19JUL12	2,380	07MAY12	24MAY12	-30	-30	■ Demolition Below Grade - 315C												
ADA0735E	Loadout - 315C	16	09JUL12	02AUG12	1,075	14MAY12	11JUN12	-30	-30	■ Loadout - 315C												
ADA0735F	Transition/Final	12	06AUG12	23AUG12	4,005	12JUN12	02JUL12	-30	-30	■ Transition/Final Closure - 315C												
ADA0736 D4 Building - 315D																						
ADA0736A	Plan &	60	03JAN12	17APR12	800	09FEB12	15MAR12	22	-18	■ Plan & Document - 315D												
ADA0736B	Deact & Decom	32	18APR12	13JUN12	10,627	27FEB12	19APR12	-30	-30	■ Deact & Decom - 315D												

















Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
ADA0793B	Deact & Decom	12	20OCT11	09NOV11	0	06OCT11	26OCT11	-8	-8													
ADA0793C	Demolition	3	10NOV11	15NOV11	0	27OCT11	01NOV11	-8	-8													
ADA0793D	Demolition	5	16NOV11	28NOV11	1,883	02NOV11	09NOV11	-8	-8													
ADA0793E	Loadout -	6	21NOV11	01DEC11	639	07NOV11	15NOV11	-8	-8													
ADA0793F	Transition/Final	5	05DEC11	12DEC11	3,584	16NOV11	28NOV11	-8	-8													
<b>ADA0796 D4 Building - 3705</b>																						
ADA0796B	Deact & Decom	30	03MAY06A	12JUN06A	449,834	24MAY10	22JUL10	810	822													
ADA0796A	Plan &	21	17APR06A	19JUN06A	46,549	10MAY10	15JUN10	812	797													
ADA0796C	Demolition	7	19JUN06A	22JUN06A	75,724	26JUL10	05AUG10	819	823													
ADA0796D	Demolition	1	26JUN06A	29JUN06A	0	09AUG10	30AUG10	823	832													
ADA0796E	Loadout - 3705	1	26JUN06A	29JUN06A	14,203	16AUG10	14SEP10	827	840													
ADA0796F	Transition/Final	13	07SEP10*	28SEP10	1,368	15SEP10	06OCT10	5	5													
<b>ADA0797 D4 Building - 3705-BA</b>																						
ADA0797B	Deact & Decom	10	01DEC10	16DEC10	12,253	24MAY10	22JUL10	-105	-81													
ADA0797A	Plan &	21	15NOV10*	27DEC10	380	10MAY10	15JUN10	-105	-105													
ADA0797C	Demolition	8	28DEC10	11JAN11	4,283	26JUL10	05AUG10	-84	-84													
ADA0797D	Demolition	4	12JAN11	18JAN11	169	09AUG10	30AUG10	-84	-75													
ADA0797E	Loadout -	4	26JAN11	01FEB11	1,334	16AUG10	14SEP10	-88	-75													
ADA0797F	Transition/Final	13	02FEB11	24FEB11	643	15SEP10	06OCT10	-75	-75													
<b>ADA0798 D4 Building - 3706</b>																						
ADA0798B	Deact & Decom	20	11OCT06A	29MAR07	2,125,662	01NOV06	16AUG07	12	78													
ADA0798A	Plan &	193	03OCT05A	10APR07	263,185	01AUG06*	31OCT06	165	-86													
ADA0798C	Demolition	12	11APR07	01MAY07	297,883	20AUG07	13SEP07	72	75													
ADA0798M	Complete	0		01MAY07	0		13SEP07	75	75													
ADA0798D	Demolition	15	05MAY08*	29MAY08	328,926	17SEP07	23OCT07	-126	-119													
ADA0798E	Loadout - 3706	30	05MAY08	25JUN08	54,090	27SEP07	19NOV07	-119	-119													
ADA0798F	Transition/Final	15	26JUN08	23JUL08	7,649	20NOV07	03JAN08	-119	-112													
<b>ADA07A1 D4 Building - 3706A</b>																						
ADA07A1A	Plan &	30	02FEB06A	15MAR07A	10,906	01AUG06*	31OCT06	99	-72													
ADA07A1B	Deact & Decom	18	05FEB07A	29MAR07	165,222	03MAY07	16AUG07	50	78													
ADA07A1C	Demolition	8	18APR07	01MAY07	18,938	20AUG07	13SEP07	68	75													
ADA07A1D	Demolition	22	05MAY08*	11JUN08	3,183	17SEP07	23OCT07	-126	-126													
ADA07A1E	Loadout -	30	15MAY08	09JUL08	2,251	27SEP07	19NOV07	-126	-126													
ADA07A1F	Transition/Final	15	10JUL08	05AUG08	3,329	20NOV07	03JAN08	-126	-119													

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year													
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
<b>ADA07A2 D4 Building - 3706-BA</b>																							
ADA07A2A	Plan &	10	04APR11*	19APR11	366	10MAY10	10AUG10	-179	-137														
ADA07A2B	Deact & Decom	5	28APR11	05MAY11	30,934	07JUN10	20SEP10	-179	-125														
ADA07A2C	Demolition	1	09MAY11	09MAY11	10,825	21SEP10	14OCT10	-125	-111														
ADA07A2D	Demolition	1	10MAY11	10MAY11	427	18OCT10	23NOV10	-111	-90														
ADA07A2E	Loadout -	1	07JUN11	07JUN11	3,371	28OCT10	27DEC10	-119	-90														
ADA07A2F	Transition/Final	10	08JUN11	23JUN11	1,626	28DEC10	03FEB11	-90	-78														
<b>ADA07A3 D4 Building - 3707D</b>																							
ADA07A3B	Deact & Decom	45	26JAN06A	20MAR06A	100,013	18JUL11	31AUG11	1,093	1,091														
ADA07A3A	Plan &	86	17OCT05A	23MAR06A	28,732	05JUL11*	02AUG11	1,140	1,071														
ADA07A3C	Demolition	6	20MAR06A	23MAR06A	46,052	01SEP11	14SEP11	1,092	1,095														
ADA07A3D	Demolition	10	14MAY08*	02JUN08	7,007	15SEP11	03OCT11	667	667														
ADA07A3E	Loadout -	1	20MAR06A	12JUN08	19,252	21SEP11	13OCT11	1,102	667														
ADA07A3F	Transition/Final	20	07JUL08*	07AUG08	11,837	17OCT11	01NOV11	656	646														
<b>ADA07A6 D4 Building - 3707H</b>																							
ADA07A6A	Plan &	17	02OCT06A	12OCT06A	8,012	05JUL11	02AUG11	949	958														
ADA07A6B	Deact & Decom	27	09OCT06A	18OCT06A	27,914	18JUL11	31AUG11	952	972														
ADA07A6C	Demolition	10	26MAR07	10APR07	15,040	01SEP11	14SEP11	889	886														
ADA07A6D	Demolition	10	11APR11*	26APR11	2,528	15SEP11	03OCT11	88	88														
ADA07A6E	Loadout -	10	21APR11	09MAY11	1,788	22SEP11	13OCT11	85	88														
ADA07A6F	Transition/Final	10	10MAY11*	25MAY11	2,644	17OCT11	01NOV11	88	88														
<b>ADA07A7 D4 Building - 3708</b>																							
ADA07A7A	Plan &	21	10APR06A	23MAY06A	27,025	10MAY10*	15JUN10	816	811														
ADA07A7B	Deact & Decom	14	22MAY06A	06JUL06A	440,256	24MAY10	22JUL10	800	808														
ADA07A7C	Demolition	1	06JUL06A	11JUL06A	50,471	26JUL10	05AUG10	809	814														
ADA07A7D	Demolition	1	09AUG06A	10AUG06A	8,482	09AUG10	30AUG10	798	809														
ADA07A7E	Loadout - 3708	1	01AUG06A	10AUG06A	6,000	16AUG10	14SEP10	807	817														
ADA07A7F	Transition/Final	13	07SEP10*	28SEP10	8,872	15SEP10	06OCT10	5	5														
<b>ADA07A8 D4 Building - 3709</b>																							
ADA07A8B	Deact & Decom	15	15OCT07	07NOV07	96,151	18DEC08	19FEB09	236	254														
ADA07A8A	Plan &	24	01OCT07*	08NOV07	10,114	04DEC08	14JAN09	236	233														
ADA07A8C	Demolition	6	12NOV07	20NOV07	17,184	23FEB09	05MAR09	253	255														
ADA07A8D	Demolition	6	26NOV07	04DEC07	3,006	09MAR09	26MAR09	255	261														
ADA07A8E	Loadout - 3709	8	05DEC07	18DEC07	5,104	16MAR09	09APR09	253	261														
ADA07A8F	Transition/Final	12	19DEC07	14JAN08	5,722	13APR09	30APR09	261	261														



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16									
<b>ADA07B2 D4 Building - 3711</b>																														
ADA07B2A	Plan &	85	14NOV05A	19APR06A	10,524	05JUL11	02AUG11	1,124	1,056																					
ADA07B2B	Deact & Decom	7	04APR06A	19APR06A	31,853	18JUL11	31AUG11	1,056	1,073																					
ADA07B2C	Demolition	7	20APR06A	26APR06A	18,023	01SEP11	14SEP11	1,073	1,076																					
ADA07B2D	Demolition	4	26APR06A	26APR06A	3,152	15SEP11	03OCT11	1,077	1,086																					
ADA07B2E	Loadout - 3711	4	26APR06A	27APR06A	5,353	21SEP11	13OCT11	1,080	1,092																					
ADA07B2F	Transition/Final	20	04AUG08*	08SEP08	6,001	17OCT11	01NOV11	640	630																					
<b>ADA07B3 D4 Building - 3712 (See Also WS 3712-USSA)</b>																														
ADA07B3A	Plan &	34	03OCT05A	01DEC05A	65,012	01DEC05*	05JAN06	33	17																					
ADA07B3B	Deact & Decom	16	01DEC05A	15DEC05A	208,940	14DEC05	31JUL06	7	123																					
ADA07B3C	Demolition	12	27DEC05A	05JAN06A	105,586	01AUG06	10AUG06	120	121																					
ADA07B3E	Loadout - 3712	14	09JAN06A	17JAN06A	19,803	21AUG06	13SEP06	125	133																					
ADA07B3D	Demolition	10	12MAY08*	28MAY08	0	14AUG06	30AUG06	-348	-347																					
ADA07B3F	Transition/Final	20	29MAY08	02JUL08	1,907	14SEP06	03OCT06	-340	-349																					
<b>ADA07B4 D4 Building - 3713</b>																														
ADA07B4A	Plan &	19	03JAN06A	02FEB06A	16,076	07OCT10	03NOV10	954	951																					
ADA07B4B	Deact & Decom	20	09JAN06A	02FEB06A	151,197	19OCT10	06DEC10	957	967																					
ADA07B4C	Demolition	9	08FEB06A	09FEB06A	27,035	07DEC10	15DEC10	965	969																					
ADA07B4E	Loadout - 3713	1	14FEB06A	30SEP06A	3,922	27DEC10	18JAN11	971	857																					
ADA07B4D	Demolition	10	30AUG10*	15SEP10	4,729	16DEC10	06JAN11	60	60																					
ADA07B4F	Transition/Final	20	28SEP10	01NOV10	9,002	19JAN11	03FEB11	60	50																					
<b>ADA07B5 D4 Building - 3714</b>																														
ADA07B5A	Plan &	33	03OCT11	30NOV11	7,913	17OCT11	14DEC11	8	8																					
ADA07B5B	Deact & Decom	53	25OCT11	01FEB12	26,704	08NOV11	15FEB12	8	8																					
ADA07B5C	Demolition	13	02FEB12	27FEB12	14,388	16FEB12	12MAR12	8	8																					
ADA07B5D	Demolition	20	28FEB12	02APR12	2,418	13MAR12	16APR12	8	8																					
ADA07B5E	Loadout - 3714	26	12MAR12	24APR12	1,710	26MAR12	08MAY12	8	8																					
ADA07B5F	Transition/Final	20	25APR12	30MAY12	2,529	09MAY12	13JUN12	8	8																					
<b>ADA07B6 D4 Building - 3715</b>																														
ADA07B6B	Deact & Decom	65	05OCT05A	02FEB06A	74,628	18JUL11	31AUG11	1,153	1,115																					
ADA07B6A	Plan &	23	05JAN06A	14FEB06A	21,590	05JUL11	02AUG11	1,098	1,092																					
ADA07B6C	Demolition	4	16FEB06A	23FEB06A	34,363	01SEP11	14SEP11	1,108	1,111																					
ADA07B6D	Demolition	10	01OCT07*	16OCT07	5,229	15SEP11	03OCT11	791	791																					
ADA07B6E	Loadout - 3715	1	21FEB06A	29OCT07	14,365	21SEP11	13OCT11	1,117	791																					
ADA07B6F	Transition/Final	20	30OCT07	05DEC07	8,832	17OCT11	01NOV11	791	781																					

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
<b>ADA07B7 D4 Building - 3716</b>																						
ADA07B7A	Plan &	18	01DEC05A	15DEC05A	21,470	01DEC05*	05JAN06	0	9	■ Plan & Document - 3716												
ADA07B7B	Deact & Decom	125	05DEC05A	15DEC05A	74,437	14DEC05	31JUL06	6	123	■ Deact & Decom - 3716												
ADA07B7C	Demolition	7	03JAN06A	05JAN06A	40,106	01AUG06	10AUG06	117	121	■ Demolition Above Grade - 3716												
ADA07B7D	Demolition	10	21JUL08*	05AUG08	6,740	14AUG06	30AUG06	-386	-385	■ Demolition Below Grade - 3716												
ADA07B7E	Loadout - 3716	14	16JAN06A	18AUG08	4,768	21AUG06	13SEP06	121	-385	■ Loadout - 3716												
ADA07B7F	Transition/Final	20	19AUG08	23SEP08	7,050	14SEP06	03OCT06	-385	-394	■ Transition/Final Closure - 3716												
<b>ADA07B8 D4 Building - 3717</b>																						
ADA07B8A	Plan &	21	10APR06A	08JUN06A	32,381	10MAY10	15JUN10	816	802	■ Plan & Document - 3717												
ADA07B8B	Deact & Decom	30	01MAY06A	08JUN06A	112,606	24MAY10	22JUL10	812	823	■ Deact & Decom - 3717												
ADA07B8C	Demolition	1	28JUN06A	28JUN06A	51,851	26JUL10	05AUG10	813	820	■ Demolition Above Grade - 3717												
ADA07B8D	Demolition	1	03JUL06A	06JUL06A	7,890	09AUG10	30AUG10	819	829	■ Demolition Below Grade - 3717												
ADA07B8E	Loadout - 3717	1	24JUL06A	01AUG06A	21,676	16AUG10	14SEP10	812	823	■ Loadout - 3717												
ADA07B8F	Transition/Final	13	07SEP10*	28SEP10	13,327	15SEP10	06OCT10	5	5	■ Transition/Final Closure - 3717												
<b>ADA07B9 D4 Building - 3717B</b>																						
ADA07B9A	Plan &	21	03APR06A	08JUN06A	73,642	10MAY10	15JUN10	820	802	■ Plan & Document - 3717B												
ADA07B9B	Deact & Decom	30	03APR06A	08JUN06A	1,183,495	24MAY10	22JUL10	828	823	■ Deact & Decom - 3717B												
ADA07B9C	Demolition	1	27JUN06A	28JUN06A	119,523	26JUL10	05AUG10	814	820	■ Demolition Above Grade - 3717B												
ADA07B9D	Demolition	1	27JUN06A	28JUN06A	0	09AUG10	30AUG10	822	833	■ Demolition Below Grade - 3717B												
ADA07B9E	Loadout -	1	24JUL06A	01AUG06A	22,417	16AUG10	14SEP10	812	823	■ Loadout - 3717B												
ADA07B9F	Transition/Final	13	07SEP10*	28SEP10	2,159	15SEP10	06OCT10	5	5	■ Transition/Final Closure - 3717B												
<b>ADA07C1 D4 Building - 3717C</b>																						
ADA07C1A	Plan &	50	03OCT11*	04JAN12	7,887	01MAY12*	30JUL12	115	115	■ Plan & Document - 3717C												
ADA07C1B	Deact & Decom	40	07NOV11	23JAN12	22,934	06JUN12	25OCT12	115	155	■ Deact & Decom - 3717C												
ADA07C1C	Demolition	20	24JAN12	28FEB12	12,977	29OCT12	04DEC12	155	155	■ Demolition Above Grade - 3717C												
ADA07C1D	Demolition	30	29FEB12	19APR12	2,270	05DEC12	30JAN13	155	155	■ Demolition Below Grade - 3717C												
ADA07C1E	Loadout -	20	23APR12	24MAY12	3,854	26DEC12	07MAR13	135	155	■ Loadout - 3717C												
ADA07C1F	Transition/Final	30	29MAY12	19JUL12	4,321	11MAR13	30APR13	155	155	■ Transition/Final Closure - 3717C												
<b>ADA07C2 D4 Building - 3718</b>																						
ADA07C2A	Plan &	25	03OCT11*	14NOV11	12,576	28SEP10*	09NOV10	-202	-202	■ Plan & Document - 3718												
ADA07C2B	Deact & Decom	40	19OCT11	04JAN12	37,049	14OCT10	29DEC10	-202	-202	■ Deact & Decom - 3718												
ADA07C2C	Demolition	10	05JAN12	23JAN12	20,964	03JAN11	18JAN11	-202	-202	■ Demolition Above Grade - 3718												
ADA07C2D	Demolition	10	24JAN12	08FEB12	3,667	19JAN11	14FEB11	-202	-197	■ Demolition Below Grade - 3718												
ADA07C2E	Loadout - 3718	10	09FEB12	28FEB12	5,353	27JAN11	03MAR11	-207	-197	■ Loadout - 3718												
ADA07C2F	Transition/Final	15	29FEB12	26MAR12	6,980	07MAR11	30MAR11	-197	-197	■ Transition/Final Closure - 3718												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16
<b>ADA07C3 D4 Building - 3718A</b>																					
ADA07C3A	Plan &	30	01NOV11*	28DEC11	21,590	31MAY12*	10JUL12	115	107												
ADA07C3B	Deact & Decom	34	16NOV11	23JAN12	74,628	18JUN12	15AUG12	115	115												
ADA07C3C	Demolition	9	24JAN12	07FEB12	34,363	16AUG12	30AUG12	115	115												
ADA07C3D	Demolition	13	08FEB12	01MAR12	5,229	04SEP12	25SEP12	115	115												
ADA07C3E	Loadout -	17	16FEB12	19MAR12	14,365	12SEP12	10OCT12	115	115												
ADA07C3F	Transition/Final	13	20MAR12	10APR12	8,832	11OCT12	01NOV12	115	115												
<b>ADA07C4 D4 Building - 3718B</b>																					
ADA07C4A	Plan &	30	01NOV11	28DEC11	10,524	31MAY12	10JUL12	115	107												
ADA07C4B	Deact & Decom	34	16NOV11	23JAN12	31,853	18JUN12	15AUG12	115	115												
ADA07C4C	Demolition	9	24JAN12	07FEB12	18,023	16AUG12	30AUG12	115	115												
ADA07C4D	Demolition	13	08FEB12	01MAR12	3,152	04SEP12	25SEP12	115	115												
ADA07C4E	Loadout -	17	16FEB12	19MAR12	6,226	12SEP12	10OCT12	115	115												
ADA07C4F	Transition/Final	13	20MAR12	10APR12	6,001	11OCT12	01NOV12	115	115												
<b>ADA07C5 D4 Building - 3718C</b>																					
ADA07C5B	Deact & Decom	20	16NOV11	22DEC11	44,594	18JUN12	15AUG12	115	129												
ADA07C5A	Plan &	30	01NOV11	28DEC11	14,967	31MAY12	10JUL12	115	107												
ADA07C5C	Demolition	9	29DEC11	16JAN12	25,233	16AUG12	30AUG12	128	128												
ADA07C5D	Demolition	13	17JAN12	07FEB12	4,413	04SEP12	25SEP12	128	128												
ADA07C5E	Loadout -	17	25JAN12	23FEB12	7,494	12SEP12	10OCT12	128	128												
ADA07C5F	Transition/Final	13	27FEB12	19MAR12	8,402	11OCT12	01NOV12	128	128												
<b>ADA07C6 D4 Building - 3718E</b>																					
ADA07C6A	Plan &	13	09OCT06A	12OCT06A	10,034	01AUG11*	22AUG11	960	969												
ADA07C6B	Deact & Decom	20	16OCT06A	02NOV06A	29,862	09AUG11	13SEP11	961	969												
ADA07C6C	Demolition	5	01MAY07*	08MAY07	16,897	14SEP11	21SEP11	874	874												
ADA07C6D	Demolition	8	09MAY07	22MAY07	2,955	22SEP11	05OCT11	874	874												
ADA07C6E	Loadout -	15	07MAY07	31MAY07	5,018	28SEP11	13OCT11	879	874												
ADA07C6F	Transition/Final	8	04JUN07	14JUN07	5,626	17OCT11	27OCT11	874	874												
<b>ADA07C7 D4 Building - 3718G</b>																					
ADA07C7A	Plan &	13	04APR11*	25APR11	13,513	01AUG11	22AUG11	66	66												
ADA07C7B	Deact & Decom	20	12APR11	16MAY11	39,816	09AUG11	13SEP11	66	66												
ADA07C7C	Demolition	5	17MAY11	24MAY11	22,529	14SEP11	21SEP11	66	66												
ADA07C7D	Demolition	8	25MAY11	08JUN11	3,941	22SEP11	05OCT11	66	66												
ADA07C7E	Loadout -	10	01JUN11	16JUN11	6,691	28SEP11	13OCT11	66	66												
ADA07C7F	Transition/Final	8	20JUN11	30JUN11	7,502	17OCT11	27OCT11	66	66												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
<b>ADA07C8 D4 Building - 3718M</b>																						
ADA07C8A	Plan &	33	12FEB07A	09APR07	8,101	03OCT11	30NOV11	928	929	■ Plan & Document - 3718M												
ADA07C8B	Deact & Decom	16	26MAR07	19APR07	24,089	25OCT11	01FEB12	918	955	■ Deact & Decom - 3718M												
ADA07C8C	Demolition	13	23APR07	14MAY07	13,630	02FEB12	27FEB12	955	955	■ Demolition Above Grade - 3718M												
ADA07C8D	Demolition	4	15MAY07	21MAY07	2,384	28FEB12	02APR12	955	971	■ Demolition Below Grade - 3718M												
ADA07C8E	Loadout -	11	24MAY07	13JUN07	4,048	08MAR12	24APR12	955	971	■ Loadout - 3718M												
ADA07C8F	Transition/Final	20	14JUN07	19JUL07	4,538	25APR12	30MAY12	971	971	■ Transition/Final Closure - 3718M												
<b>ADA07C9 D4 Building - 3718N</b>																						
ADA07C9A	Plan &	15	02JUL12*	26JUL12	9,714	01MAY12	22MAY12	-34	-36	■ Plan & Document - 3718N												
ADA07C9B	Deact & Decom	10	11JUL12	26JUL12	28,668	09MAY12	13JUN12	-34	-24	■ Deact & Decom - 3718N												
ADA07C9C	Demolition	5	30JUL12	06AUG12	16,221	14JUN12	21JUN12	-24	-24	■ Demolition Above Grade - 3718N												
ADA07C9D	Demolition	8	07AUG12	20AUG12	2,837	25JUN12	09JUL12	-24	-24	■ Demolition Below Grade - 3718N												
ADA07C9E	Loadout -	10	13AUG12	28AUG12	4,817	28JUN12	17JUL12	-24	-24	■ Loadout - 3718N												
ADA07C9F	Transition/Final	8	29AUG12	12SEP12	5,401	18JUL12	31JUL12	-24	-24	■ Transition/Final Closure - 3718N												
<b>ADA07D2 D4 Building - 3718S</b>																						
ADA07D2A	Plan &	23	07FEB07A	26MAR07	1,832	04JAN10	10MAR10	579	591	■ Plan & Document - 3718S												
ADA07D2B	Deact & Decom	28	01FEB07A	19APR07	14,623	28JAN10	17MAY10	597	614	■ Deact & Decom - 3718S												
ADA07D2C	Demolition	5	23APR07	30APR07	14,190	18MAY10	14JUN10	614	624	■ Demolition Above Grade - 3718S												
ADA07D2D	Demolition	5	01MAY07	08MAY07	560	15JUN10	26JUL10	624	642	■ Demolition Below Grade - 3718S												
ADA07D2E	Loadout -	3	31MAY07	05JUN07	4,419	29JUN10	19AUG10	615	642	■ Loadout - 3718S												
ADA07D2F	Transition/Final	15	06JUN07	02JUL07	2,131	23AUG10	30SEP10	642	650	■ Transition/Final Closure - 3718S												
<b>ADA07D3 D4 Building - 3719</b>																						
ADA07D3A	Plan &	25	01MAR07A	12APR07	9,714	04OCT10	15NOV10	719	719	■ Plan & Document - 3719												
ADA07D3B	Deact & Decom	40	26MAR07	04JUN07	90,676	20OCT10	05JAN11	716	716	■ Deact & Decom - 3719												
ADA07D3C	Demolition	10	05JUN07	20JUN07	16,221	06JAN11	24JAN11	716	716	■ Demolition Above Grade - 3719												
ADA07D3D	Demolition	15	21JUN11*	18JUL11	2,837	25JAN11	17FEB11	-82	-82	■ Demolition Below Grade - 3719												
ADA07D3E	Loadout - 3719	20	29JUN11	03AUG11	4,817	02FEB11	09MAR11	-82	-82	■ Loadout - 3719												
ADA07D3F	Transition/Final	15	04AUG11	30AUG11	5,401	10MAR11	05APR11	-82	-82	■ Transition/Final Closure - 3719												
<b>ADA07D4 D4 Building - 3720</b>																						
ADA07D4A	Plan &	195	10OCT05A	22JAN07A	179,236	01DEC05*	28SEP06	29	-60	■ Plan & Document - 3720												
ADA07D4B	Deact & Decom	5	16OCT06A	21MAR07A	5,193,135	02JUL07*	30SEP08	141	307	■ Deact & Decom - 3720												
ADA07D4C	Demolition	64	26MAR07	24SEP07	291,372	01OCT08	30OCT08	306	222	■ Demolition Above Grade - 3720												
ADA07D4D	Demolition	27	25SEP07	08NOV07	0	03NOV08	22DEC08	222	222	■ Demolition Below Grade - 3720												
ADA07D4E	Loadout - 3720	93	28JUN07	13DEC07	54,649	17NOV08	27JAN09	278	222	■ Loadout - 3720												
ADA07D4M	Complete	0		13DEC07	0		27JAN09	222	222	◆ Complete Building 3720 Demolition												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt chart area with activity bars and labels																
ADA07E1M	Complete	0		18MAR09	0		02FEB12	575	575	◆ Complete Building 3730 Demolition																
ADA07E1F	Transition/Final	12	19MAR09	08APR09	8,026	06FEB12	27FEB12	575	575	■ Transition/Final Closure - 3730																
ADA07E2 D4 Building - 3731																										
ADA07E2A	Plan &	17	02OCT06A	12OCT06A	10,524	05JUL11	02AUG11	949	958	■ Plan & Document - 3731																
ADA07E2B	Deact & Decom	27	09OCT06A	16OCT06A	100,674	18JUL11	31AUG11	952	974	■ Deact & Decom - 3731																
ADA07E2C	Demolition	10	26MAR07	10APR07	18,023	01SEP11	14SEP11	889	886	■ Demolition Above Grade - 3731																
ADA07E2D	Demolition	10	11APR07	26APR07	3,152	15SEP11	03OCT11	886	886	■ Demolition Below Grade - 3731																
ADA07E2E	Loadout - 3731	10	24APR07	09MAY07	5,353	22SEP11	13OCT11	883	886	■ Loadout - 3731																
ADA07E2F	Transition/Final	10	04SEP07*	19SEP07	6,001	17OCT11	01NOV11	823	823	■ Transition/Final Closure - 3731																
ADA07E3 D4 Building - 3731A																										
ADA07E3A	Plan &	17	02OCT06A	12OCT06A	10,524	05JUL11	02AUG11	949	958	■ Plan & Document - 3731A																
ADA07E3B	Deact & Decom	27	09OCT06A	16OCT06A	169,523	18JUL11	31AUG11	952	974	■ Deact & Decom - 3731A																
ADA07E3C	Demolition	7	26MAR07	04APR07	18,023	01SEP11	14SEP11	889	889	■ Demolition Above Grade - 3731A																
ADA07E3D	Demolition	10	05APR07	23APR07	3,152	15SEP11	03OCT11	889	889	■ Demolition Below Grade - 3731A																
ADA07E3E	Loadout -	13	12APR07	03MAY07	5,353	22SEP11	13OCT11	889	889	■ Loadout - 3731A																
ADA07E3F	Transition/Final	10	04SEP07	19SEP07	6,001	17OCT11	01NOV11	823	823	■ Transition/Final Closure - 3731A																
ADA07E4 D4 Building - 3745																										
ADA07E4A	Plan &	24	16OCT06A	26MAR07	34,219	07DEC09*	14JAN10	627	561	■ Plan & Document - 3745																
ADA07E4B	Deact & Decom	31	22FEB07A	05APR07	553,986	21DEC09	23FEB10	566	575	■ Deact & Decom - 3745																
ADA07E4C	Demolition	20	09APR07	10MAY07	55,965	24FEB10	09MAR10	575	563	■ Demolition Above Grade - 3745																
ADA07E4D	Demolition	13	14MAY07	05JUN07	0	10MAR10	31MAR10	563	563	■ Demolition Below Grade - 3745																
ADA07E4E	Loadout - 3745	17	21MAY07	19JUN07	10,497	17MAR10	14APR10	563	563	■ Loadout - 3745																
ADA07E4F	Transition/Final	13	04SEP07	25SEP07	1,011	15APR10	06MAY10	522	522	■ Transition/Final Closure - 3745																
ADA07E5 D4 Building - 3745A																										
ADA07E5B	Deact & Decom	31	22FEB07A	14MAR07A	139,666	21DEC09	23FEB10	566	588	■ Deact & Decom - 3745A																
ADA07E5A	Plan &	24	13NOV06A	26MAR07	8,641	07DEC09	14JAN10	611	561	■ Plan & Document - 3745A																
ADA07E5C	Demolition	8	27MAR07	09APR07	16,005	24FEB10	09MAR10	582	582	■ Demolition Above Grade - 3745A																
ADA07E5D	Demolition	13	10APR07	01MAY07	2,690	10MAR10	31MAR10	582	582	■ Demolition Below Grade - 3745A																
ADA07E5E	Loadout -	17	17APR07	15MAY07	1,903	17MAR10	14APR10	582	582	■ Loadout - 3745A																
ADA07E5F	Transition/Final	13	04SEP07	25SEP07	2,813	15APR10	06MAY10	522	522	■ Transition/Final Closure - 3745A																
ADA07E6 D4 Building - 3745B																										
ADA07E6A	Plan &	16	13NOV06A	26MAR07	45,029	07DEC09	14JAN10	611	561	■ Plan & Document - 3745B																
ADA07E6B	Deact & Decom	20	22FEB07A	27MAR07	725,449	21DEC09	22FEB10	566	580	■ Deact & Decom - 3745B																
ADA07E6C	Demolition	25	28MAR07	09MAY07	73,258	23FEB10	08MAR10	580	563	■ Demolition Above Grade - 3745B																
ADA07E6D	Demolition	12	10MAY07	31MAY07	0	09MAR10	29MAR10	563	563	■ Demolition Below Grade - 3745B																







Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16											
										Gantt Chart											
ADA07H2C	Demolition	5	24OCT05A	10NOV05A	13,913	07MAR06	16MAR06	71	66	Demolition Above Grade - MO-052											
ADA07H2D	Demolition	10	24OCT05A	10NOV05A	0	20MAR06	04APR06	78	76	Demolition Below Grade - MO-052											
ADA07H2E	Loadout -	14	01NOV05A	10NOV05A	0	23MAR06	17APR06	76	83	Loadout - MO-052											
ADA07H2F	Transition/Final	20	02APR08*	06MAY08	1,272	18APR06	03MAY06	-391	-401	Transition/Final Closure - MO-052											
ADA07J2 D4 Building - MO-270																					
ADA07J2A	Plan &	13	07FEB12*	29FEB12	3,063	01AUG12	22AUG12	98	98	Plan & Document - MO-270											
ADA07J2B	Deact & Decom	21	15FEB12	22MAR12	0	09AUG12	17SEP12	98	98	Deact & Decom - MO-270											
ADA07J2C	Demolition	5	26MAR12	02APR12	13,512	18SEP12	25SEP12	98	98	Demolition Above Grade - MO-270											
ADA07J2D	Demolition	8	03APR12	16APR12	0	26SEP12	09OCT12	98	98	Demolition Below Grade - MO-270											
ADA07J2E	Loadout -	10	09APR12	24APR12	0	02OCT12	17OCT12	98	98	Loadout - MO-270											
ADA07J2F	Transition/Final	8	25APR12	08MAY12	1,235	18OCT12	31OCT12	98	98	Transition/Final Closure - MO-270											
ADA07J3 D4 Building - MO-271																					
ADA07J3A	Plan &	13	07FEB12	29FEB12	3,063	01AUG12	22AUG12	98	98	Plan & Document - MO-271											
ADA07J3B	Deact & Decom	21	15FEB12	22MAR12	0	09AUG12	17SEP12	98	98	Deact & Decom - MO-271											
ADA07J3C	Demolition	5	26MAR12	02APR12	13,512	18SEP12	25SEP12	98	98	Demolition Above Grade - MO-271											
ADA07J3D	Demolition	8	03APR12	16APR12	0	26SEP12	09OCT12	98	98	Demolition Below Grade - MO-271											
ADA07J3E	Loadout -	10	09APR12	24APR12	0	02OCT12	17OCT12	98	98	Loadout - MO-271											
ADA07J3F	Transition/Final	8	25APR12	08MAY12	1,235	18OCT12	31OCT12	98	98	Transition/Final Closure - MO-271											
ADA07L1 D4 Building - 308																					
ADA07L1C	Demolition	53	08NOV10	15FEB11	458,700	08NOV10	16FEB11	0	1	Demolition Above Grade - 308											
ADA07L1D	Demolition	81	16FEB11	12JUL11	395,469	17FEB11	13JUL11	1	1	Demolition Below Grade - 308											
ADA07L1E	Loadout - 308	108	06APR11	17OCT11	83,739	07APR11	18OCT11	1	1	Loadout - 308											
ADA07L1M	Complete	0		17OCT11	0		18OCT11	1	1	Complete Demolition of Building 308											
ADA07L1F	Transition/Final	81	18OCT11	15MAR12	77,392	19OCT11	19MAR12	1	1	Transition/Final Closure - 308											
ADA07N1 D4 Building - 326																					
ADA07N1A	Plan &	130	03MAR09	20OCT09	480,579	01OCT09*	26MAY10	119	119	Plan & Document - 326											
ADA07N1B	Deact & Decom	399	01OCT09*	29SEP11	11,982,527	10MAY10*	07MAY12	119	119	Deact & Decom - 326											
ADA07N1C	Demolition	52	03OCT11	09JAN12	482,213	08MAY12	08AUG12	119	119	Demolition Above Grade - 326											
ADA07N1DM	Complete	0		23FEB12	0		04APR13	223	223	Complete Building 326 Demolition											
ADA07N1E	Loadout - 326	52	16NOV11	23FEB12	110,320	26SEP12	04APR13	171	223	Loadout - 326											
ADA07N1F	Transition/Final	66	27FEB12	20JUN12	81,359	08APR13	22AUG13	223	235	Transition/Final Closure - 326											
ADA07N2 D4 Building - 326-BA																					
ADA07N2A	Plan &	80	01DEC10	26APR11	1,980	04OCT10*	01MAR11	-32	-32	Plan & Document - 326-BA											
ADA07N2B	Deact & Decom	128	01FEB11*	19SEP11	43,123	01DEC10	21JUL11	-32	-32	Deact & Decom - 326-BA											
ADA07N2C	Demolition	32	20SEP11	14NOV11	15,084	25JUL11	19SEP11	-32	-32	Demolition Above Grade - 326-BA											







Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Gantt Chart												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
ADA0803D	Demolition	10	26MAR07	10APR07	793	08NOV05	28NOV05	-272	-272	Demolition Below Grade - 334TF												
ADA0803E	Loadout -	13	07DEC05A	23APR07	17,142	15NOV05	08DEC05	-11	-272	Loadout - 334TF												
ADA0803F	Transition/Final	20	25JUN08*	30JUL08	1,284	12DEC05	29DEC05	-507	-517	Transition/Final Closure - 334TF												
ADR2501 D4-Non Site Specific Support 300 Area Sites																						
ADR2501A1	D4-300 Area	24	29AUG05A	24OCT05A	447,277	29AUG05	29SEP05	0	-13	D4-300 Area Non-Site Specific Support FY05												
ADR2501A2	D4-300 Area	203	23AUG06A	28DEC06A	2,181,211	03OCT05	28SEP06	-178	-48	D4-300 Area Non-Site Specific Support FY06												
<b>RA Field Remediation</b>																						
CMA0302 Confirmatory Sampling Site - 300-2																						
CMA0302A	Work	57	01NOV07*	19FEB08	23,263	06AUG12	31OCT12	949	942	Work Instructions - CS Site - 300-2												
CMA0302B	Smplg and	25	20FEB08	02APR08	17,268	01NOV12	18DEC12	942	942	Smplg and Analysis - CS Site - 300-2												
CMA0302C	RSVP or RTD	93	03APR08	17SEP08	10,137	19DEC12	27FEB13	942	886	RSVP or RTD Report - CS Site - 300-2												
CMA0303 Confirmatory Sampling Site - 300-32 (333 Bldg)																						
CMA0303A	Work	57	16OCT07*	30JAN08	8,199	29AUG05	28NOV05	-426	-433	Work Instructions - CS Site - 300-32 (Associated												
CMA0303B	Smplg and	25	28FEB08	10APR08	17,268	04SEP07	16OCT07	-96	-96	Smplg and Analysis - CS Site - 300-32 (Associate												
CMA0303C	RSVP or RTD	93	22OCT08	13APR09	10,137	17OCT07	20MAR08	-203	-212	RSVP or RTD Report - CS Site - 300-32 (Associate												
CMA0304 Confirmatory Sampling Site - 300-7																						
CMA0304B	Smplg and	26	27MAR06A	20JUN06A	40,121	17MAY06	29JUN06	30	6	Smplg and Analysis - CS Site - 300-7												
CMA0304C	RSVP or RTD	39	30MAY06A	26JUL06A	10,137	28JUN06	28NOV06	17	68	RSVP or RTD Report - CS Site - 300-7												
CMA0305 Confirmatory Sampling Site - 300-9																						
CMA0305B	Smplg and	28	28MAR06A	20JUN06A	40,121	22MAY06	05JUL06	31	8	Smplg and Analysis - CS Site - 300-9												
CMA0305C	RSVP or RTD	39	30MAY06A	05JUL06A	10,137	03JUL06	30NOV06	19	82	RSVP or RTD Report - CS Site - 300-9												
CMA0306 Confirmatory Sampling Site - 303-M UOF																						
CMA0306A	Work	57	30OCT07*	13FEB08	15,732	13SEP05	12DEC05	-426	-433	Work Instructions - CS Site - 303-M UOF												
CMA0306B	Smplg and	25	14FEB08	31MAR08	40,121	15MAY06	27JUN06	-350	-350	Smplg and Analysis - CS Site - 303-M UOF												
CMA0306C	RSVP or RTD	93	01APR08	15SEP08	10,137	06JUL06	05DEC06	-346	-355	RSVP or RTD Report - CS Site - 303-M UOF												
CMA0307 Confirmatory Sampling Site - UPR-300-2																						
CMA0307A	Work	57	19NOV07*	05MAR08	15,732	04OCT10*	05JAN11	573	566	Work Instructions - CS Site - UPR-300-2												
CMA0307C	RSVP or RTD	93	25APR11	06OCT11	10,137	25APR11	21SEP11	0	-9	RSVP or RTD Report - CS Site - UPR-300-2												
CMA0308 Confirmatory Sampling Site - 331 LSLDF																						
CMA0308A	Work	34	06DEC05A	19JUN06A	15,732	15MAR06*	11MAY06	53	-20	Work Instructions - CS Site - 331 LSLDF												
CMA0308B	Smplg and	28	18APR06A	11JUN07	17,268	24MAY06	10JUL06	21	-184	Smplg and Analysis - CS Site - 331 LSLDF												
CMA0308C	RSVP or RTD	59	03APR08	17JUL08	10,137	11JUL06	08NOV06	-346	-336	RSVP or RTD Report - CS Site - 331 LSLDF												
CMA0309 Confirmatory Sampling Site - 331 LSLT1																						
CMA0309A	Work	34	29AUG05A	24AUG06A	15,732	01MAR06*	27APR06	99	-66	Work Instructions - CS Site - 331 LSLT1												
CMA0310 Confirmatory Sampling Site - 331 LSLT2																						
CMA0310A	Work	34	06DEC05A	01MAY06A	15,732	15MAR06	11MAY06	53	7	Work Instructions - CS Site - 331 LSLT2												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
CMB0510E	Revegetation -	6	14JAN13	22JAN13	29,110	16APR13	24APR13	52	52	Revegetation - Rem Wst Site - 300 RRLWS												
CMB0511 Remediate Waste Site - 300 VTS																						
CMB0511D	Closeout Smpg	159	03OCT05A	08MAR06A	21,126	29AUG05	14JUN06	-19	55	Closeout Smpg - Rem Wst Site - 300 VTS												
CMB0511C	Backfill - Rem	34	14AUG06A	17AUG06A	145,032	06JUL06	21AUG06	-21	1	Backfill - Rem Wst Site - 300 VTS												
CMB0511E	Revegetation -	5	20SEP11*	27SEP11	5,549	28AUG06	05SEP06	-1,011	1,011	Revegetation - Rem Wst Site - 300 VTS												
CMB0512 Remediate Waste Site - 300-109																						
CMB0512A	Excavation	5	14APR09	21APR09	4,065	21JAN08	28JAN08	-247	-247	Excavation Process - Rem Wst Site - 300-109												
CMB0512B	Loadout - Rem	5	12MAY09	19MAY09	1,263	19FEB08	26FEB08	-247	-247	Loadout - Rem Wst Site - 300-109												
CMB0512D	Closeout Smpg	159	20MAY09	09MAR10	4,474	27FEB08	09DEC08	-247	-247	Closeout Smpg - Rem Wst Site - 300-109												
CMB0512C	Backfill - Rem	2	10MAR10	11MAR10	983	10DEC08	11DEC08	-247	-247	Backfill - Rem Wst Site - 300-109												
CMB0512E	Revegetation -	1	15MAR10	15MAR10	163	15DEC08	15DEC08	-247	-247	Revegetation - Rem Wst Site - 300-109												
CMB0514 Remediate Waste Site - 300-110																						
CMB0514A	Excavation	5	02SEP08*	09SEP08	56	25OCT07*	01NOV07	-169	-169	Excavation Process - Rem Wst Site - 300-110												
CMB0514B	Loadout - Rem	5	30SEP08	07OCT08	17	27NOV07	04DEC07	-169	-169	Loadout - Rem Wst Site - 300-110												
CMB0514D	Closeout Smpg	159	08OCT08	27JUL09	61	05DEC07	18SEP08	-169	-169	Closeout Smpg - Rem Wst Site - 300-110												
CMB0514C	Backfill - Rem	2	28JUL09	29JUL09	13	22SEP08	23SEP08	-169	-169	Backfill - Rem Wst Site - 300-110												
CMB0514E	Revegetation -	1	30JUL09	30JUL09	2	24SEP08	24SEP08	-169	-169	Revegetation - Rem Wst Site - 300-110												
CMB0515 Remediate Waste Site - 300-121																						
CMB0515A	Excavation	5	23MAY12	31MAY12	70	09MAY12	15MAY12	-8	-9	Excavation Process - Rem Wst Site - 300-121												
CMB0515B	Loadout - Rem	4	21JUN12	27JUN12	17	07JUN12	13JUN12	-8	-8	Loadout - Rem Wst Site - 300-121												
CMB0515D	Closeout Smpg	159	28JUN12	16APR13	61	14JUN12	02APR13	-8	-8	Closeout Smpg - Rem Wst Site - 300-121												
CMB0515C	Backfill - Rem	1	17APR13	17APR13	13	03APR13	03APR13	-8	-8	Backfill - Rem Wst Site - 300-121												
CMB0515E	Revegetation -	1	18APR13	18APR13	2	04APR13	04APR13	-8	-8	Revegetation - Rem Wst Site - 300-121												
CMB0516 Remediate Waste Site - 300-123 (Building 366A)																						
CMB0516A	Excavation	5	25APR12*	02MAY12	121,729	09MAY12*	16MAY12	8	8	Excavation Process - Rem Wst Site - 300-123 (D4 366A)												
CMB0516B	Loadout - Rem	5	23MAY12	31MAY12	40,438	07JUN12	14JUN12	8	8	Loadout - Rem Wst Site - 300-123 (D4 366A)												
CMB0516D	Closeout Smpg	159	04JUN12	20MAR13	54,108	18JUN12	03APR13	8	8	Closeout Smpg - Rem Wst Site - 300-123 (D4 366A)												
CMB0516C	Backfill - Rem	2	21MAR13	25MAR13	41,366	04APR13	08APR13	8	8	Backfill - Rem Wst Site - 300-123 (D4 366A)												
CMB0516E	Revegetation -	1	26MAR13	26MAR13	1,298	09APR13	09APR13	8	8	Revegetation - Rem Wst Site - 300-123 (D4 366A)												
CMB0517 Remediate Waste Site - 300-15																						
CMB0517A	Excavation	225	04OCT10*	15NOV11	2,594,675	25MAY11*	18APR12	128	83	Excavation Process - Rem Wst Site - 300-15												
CMB0517B	Loadout - Rem	180	20JAN11	12DEC11	384,376	23JUN11	16MAY12	86	86	Loadout - Rem Wst Site - 300-15												
CMB0517D	Closeout Smpg	159	13DEC11	26SEP12	767,559	17MAY12	06MAR13	86	86	Closeout Smpg - Rem Wst Site - 300-15												
CMB0517C	Backfill - Rem	123	11APR12	15NOV12	1,287,309	13SEP12	25APR13	86	86	Backfill - Rem Wst Site - 300-15												
CMB0517E	Revegetation -	2	19NOV12	20NOV12	112,946	29APR13	30APR13	86	86	Revegetation - Rem Wst Site - 300-15												







Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year																							
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16												
CMB0539E	Revegetation -	1	08SEP10	08SEP10	408	20MAY10	20MAY10	-60	-60														Revegetation - Rem Wst Site - 300-28										
CMB0540 Remediate Waste Site - 300-29																																	
CMB0540A	Excavation	6	05OCT09	13OCT09	31,264	29OCT09	09NOV09	15	15														Excavation Process - Rem Wst Site - 300-29										
CMB0540B	Loadout - Rem	6	02NOV09	10NOV09	9,712	01DEC09	09DEC09	15	15														Loadout - Rem Wst Site - 300-29										
CMB0540D	Closeout Smpg	159	11NOV09	30AUG10	34,409	10DEC09	27SEP10	15	15														Closeout Smpg - Rem Wst Site - 300-29										
CMB0540C	Backfill - Rem	2	31AUG10	01SEP10	7,560	28SEP10	29SEP10	15	15														Backfill - Rem Wst Site - 300-29										
CMB0540E	Revegetation -	1	02SEP10	02SEP10	1,257	30SEP10	30SEP10	15	15														Revegetation - Rem Wst Site - 300-29										
CMB0544 Remediate Waste Site - 300-40																																	
CMB0544A	Excavation	4	21JUL08*	24JUL08	0	08OCT07*	11OCT07	-156	-156														Excavation Process - Rem Wst Site - 300-40										
CMB0544B	Loadout - Rem	4	18AUG08	21AUG08	0	05NOV07	08NOV07	-156	-156														Loadout - Rem Wst Site - 300-40										
CMB0544D	Closeout Smpg	159	25AUG08	10JUN09	17,885	12NOV07	27AUG08	-156	-156														Closeout Smpg - Rem Wst Site - 300-40										
CMB0544C	Backfill - Rem	1	11JUN09	11JUN09	0	28AUG08	28AUG08	-156	-156														Backfill - Rem Wst Site - 300-40										
CMB0544E	Revegetation -	1	15JUN09	15JUN09	0	02SEP08	02SEP08	-156	-156														Revegetation - Rem Wst Site - 300-40										
CMB0546 Remediate Waste Site - 300-43																																	
CMB0546A	Excavation	6	05OCT09	13OCT09	20,996	08JAN09	19JAN09	-149	-149														Excavation Process - Rem Wst Site - 300-43										
CMB0546B	Loadout - Rem	6	02NOV09	10NOV09	3,288	05FEB09	17FEB09	-149	-149														Loadout - Rem Wst Site - 300-43										
CMB0546D	Closeout Smpg	159	11NOV09	30AUG10	15,305	18FEB09	01DEC09	-149	-149														Closeout Smpg - Rem Wst Site - 300-43										
CMB0546C	Backfill - Rem	2	31AUG10	01SEP10	3,764	02DEC09	03DEC09	-149	-149														Backfill - Rem Wst Site - 300-43										
CMB0546E	Revegetation -	1	02SEP10	02SEP10	591	07DEC09	07DEC09	-149	-149														Revegetation - Rem Wst Site - 300-43										
CMB0548 Remediate Waste Site - 300-48																																	
CMB0548A	Excavation	122	09APR08*	12NOV08	23,574	07JAN09*	15JAN09	148	32														Excavation Process - Rem Wst Site - 300-48										
CMB0548B	Loadout - Rem	56	03SEP08	11DEC08	6,380	04FEB09	12FEB09	83	33														Loadout - Rem Wst Site - 300-48										
CMB0548M	Complete	0		17FEB09	0		12FEB09	-1	-1														Complete 300-48 and 100-D-41 Loadout										
CMB0548D	Closeout Smpg	160	15DEC08	30SEP09	10,349	17FEB09	30NOV09	33	32														Closeout Smpg - Rem Wst Site - 300-48										
CMB0548C	Backfill - Rem	8	01OCT09	14OCT09	5,994	01DEC09	02DEC09	32	26														Backfill - Rem Wst Site - 300-48										
CMB0548E	Revegetation -	2	15OCT09	19OCT09	606	03DEC09	03DEC09	26	25														Revegetation - Rem Wst Site - 300-48										
CMB0549 Remediate Waste Site - 300-5																																	
CMB0549A	Excavation	9	02MAY11*	16MAY11	62,071	02MAY11*	11MAY11	0	-2														Excavation Process - Rem Wst Site - 300-5										
CMB0549B	Loadout - Rem	7	01JUN11	13JUN11	7,776	31MAY11	09JUN11	-1	-1														Loadout - Rem Wst Site - 300-5										
CMB0549D	Closeout Smpg	159	14JUN11	29MAR12	36,198	13JUN11	28MAR12	-1	-1														Closeout Smpg - Rem Wst Site - 300-5										
CMB0549C	Backfill - Rem	3	02APR12	04APR12	8,903	29MAR12	03APR12	-1	-1														Backfill - Rem Wst Site - 300-5										
CMB0549E	Revegetation -	1	05APR12	05APR12	1,398	04APR12	04APR12	-1	-1														Revegetation - Rem Wst Site - 300-5										
CMB0551 Remediate Waste Site - 300-8																																	
CMB0551D	Closeout Smpg	159	29AUG05A	05OCT05A	290,442	29AUG05	14JUN06	0	137														Closeout Smpg - Rem Wst Site - 300-8										
CMB0551C	Backfill - Rem	34	14AUG06A	17AUG06A	63,814	20JUN06	05JUL06	-30	-25														Backfill - Rem Wst Site - 300-8										

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
CMB0551E	Revegetation -	2	21DEC06A	28DEC06A	10,607	23AUG06	24AUG06	-66	-67	Revegetation - Rem Wst Site - 300-8												
CMB0552 Remediate Waste Site - 300-80																						
CMB0552A	Excavation	5	05OCT09	12OCT09	251	03FEB09	10FEB09	-135	-135	Excavation Process - Rem Wst Site - 300-80												
CMB0552B	Loadout - Rem	5	02NOV09	09NOV09	78	04MAR09	11MAR09	-135	-135	Loadout - Rem Wst Site - 300-80												
CMB0552D	Closeout Smpg	159	10NOV09	26AUG10	276	12MAR09	28DEC09	-135	-135	Closeout Smpg - Rem Wst Site - 300-80												
CMB0552C	Backfill - Rem	2	30AUG10	31AUG10	61	29DEC09	30DEC09	-135	-135	Backfill - Rem Wst Site - 300-80												
CMB0552E	Revegetation -	1	01SEP10	01SEP10	10	04JAN10	04JAN10	-135	-135	Revegetation - Rem Wst Site - 300-80												
CMB0553 Remediate Waste Site - 303-M SA																						
CMB0553A	Excavation	6	14APR09	22APR09	4,242	21JAN08	29JAN08	-247	-247	Excavation Process - Rem Wst Site - 303-M SA												
CMB0553B	Loadout - Rem	6	12MAY09	20MAY09	664	19FEB08	27FEB08	-247	-247	Loadout - Rem Wst Site - 303-M SA												
CMB0553D	Closeout Smpg	159	21MAY09	10MAR10	3,092	28FEB08	10DEC08	-247	-247	Closeout Smpg - Rem Wst Site - 303-M SA												
CMB0553C	Backfill - Rem	2	11MAR10	15MAR10	761	11DEC08	15DEC08	-247	-247	Backfill - Rem Wst Site - 303-M SA												
CMB0553E	Revegetation -	1	16MAR10	16MAR10	119	16DEC08	16DEC08	-247	-247	Revegetation - Rem Wst Site - 303-M SA												
CMB0554 Remediate Waste Site - 305-B SF																						
CMB0554A	Excavation	100	26MAR07	19SEP07	0	12MAR09	08SEP09	393	393	Excavation Process - Rem Wst Site - 305-B SF												
CMB0554B	Loadout - Rem	100	23APR07	17OCT07	0	09APR09	06OCT09	393	393	Loadout - Rem Wst Site - 305-B SF												
CMB0554D	Closeout Smpg	159	18OCT07	05AUG08	0	07OCT09	26JUL10	393	393	Closeout Smpg - Rem Wst Site - 305-B SF												
CMB0554C	Backfill - Rem	13	06AUG08	27AUG08	0	27JUL10	17AUG10	393	393	Backfill - Rem Wst Site - 305-B SF												
CMB0554E	Revegetation -	3	29SEP09	01OCT09	0	18AUG10	23AUG10	177	177	Revegetation - Rem Wst Site - 305-B SF												
CMB0558 Remediate Waste Site - 313 ESSP																						
CMB0558A	Excavation	21	21JUL08*	25AUG08	40,792	08OCT07*	12NOV07	-156	-156	Excavation Process - Rem Wst Site - 313 ESSP												
CMB0558B	Loadout - Rem	21	18AUG08	23SEP08	11,041	05NOV07	12DEC07	-156	-156	Loadout - Rem Wst Site - 313 ESSP												
CMB0558D	Closeout Smpg	159	24SEP08	13JUL09	17,907	13DEC07	29SEP08	-156	-156	Closeout Smpg - Rem Wst Site - 313 ESSP												
CMB0558C	Backfill - Rem	8	14JUL09	27JUL09	10,372	30SEP08	13OCT08	-156	-156	Backfill - Rem Wst Site - 313 ESSP												
CMB0558E	Revegetation -	2	28JUL09	29JUL09	1,048	14OCT08	15OCT08	-156	-156	Revegetation - Rem Wst Site - 313 ESSP												
CMB0560 Remediate Waste Site - 316-3																						
CMB0560A	Excavation	115	01AUG11*	28FEB12	681,576	03OCT11*	20MAR12	35	12	Excavation Process - Rem Wst Site - 316-3												
CMB0560B	Loadout - Rem	92	10OCT11	27MAR12	300,953	31OCT11	17APR12	12	12	Loadout - Rem Wst Site - 316-3												
CMB0560D	Closeout Smpg	159	28MAR12	14JAN13	172,120	18APR12	04FEB13	12	12	Closeout Smpg - Rem Wst Site - 316-3												
CMB0560C	Backfill - Rem	33	15JAN13	13MAR13	312,819	05FEB13	03APR13	12	12	Backfill - Rem Wst Site - 316-3												
CMB0560E	Revegetation -	7	14MAR13	26MAR13	11,885	04APR13	16APR13	12	12	Revegetation - Rem Wst Site - 316-3												
CMB0570 Remediate Waste Site - 333 ESHWSA																						
CMB0570A	Excavation	5	14APR09	21APR09	1,225	21JAN08	28JAN08	-247	-247	Excavation Process - Rem Wst Site - 333 ESHWSA												
CMB0570B	Loadout - Rem	5	12MAY09	19MAY09	381	19FEB08	26FEB08	-247	-247	Loadout - Rem Wst Site - 333 ESHWSA												
CMB0570D	Closeout Smpg	159	20MAY09	09MAR10	1,348	27FEB08	09DEC08	-247	-247	Closeout Smpg - Rem Wst Site - 333 ESHWSA												









Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
CMB05A6B	Loadout - Rem	48	06OCT10	05JAN11	3,653	21OCT10	20JAN11	9	9													
CMB05A6D	Closeout Smpg	18	06JAN11	07FEB11	29,059	24JAN11	23FEB11	9	9													
CMB05A6C	Backfill - Rem	24	08FEB11	22MAR11	6,818	24FEB11	06APR11	9	9													
CMB05A6E	Revegetation -	6	23MAR11	31MAR11	427	12MAY11	23MAY11	29	29													
CMB05C1 Remediate Waste Site - 300-264 (Bldg 327)																						
CMB05C1A	Excavation	5	04OCT10	11OCT10	174,210	05JAN11	11JAN11	49	48													
CMB05C1B	Loadout - Rem	4	30NOV10	06DEC10	0	01MAR11	07MAR11	48	48													
CMB05C1D	Closeout Smpg	159	07DEC10	21SEP11	16,297	08MAR11	19DEC11	48	48													
CMB05C1C	Backfill - Rem	1	22SEP11	22SEP11	138,389	20DEC11	20DEC11	48	48													
CMB05C1E	Revegetation -	1	26SEP11	26SEP11	5,105	21DEC11	21DEC11	48	48													
CMB0601 Remediate Burial Ground - 618-1																						
CMB0601B	Loadout - Rem	124	30SEP08	13MAY09	745,720	27NOV07	12FEB08	-169	-251													
CMB0601M	Complete 618-1	0		13MAY09	0		12FEB08	-251	-251													
CMB0601A	Excavation -	237	02SEP08*	04NOV09	5,191,936	25OCT07	15JAN08	-169	-364													
CMB0601D	Closeout Smpg	159	14MAY09	03MAR10	420,704	13FEB08	24NOV08	-251	-251													
CMB0601C	Backfill - Rem	60	04MAR10	17JUN10	243,554	25NOV08	23DEC08	-251	-296													
CMB0601E	Revegetation -	3	21JUN10	23JUN10	8,732	29DEC08	31DEC08	-296	-296													
CMB0602 Remediate Burial Ground - 618-13																						
CMB0602A	Excavation -	50	02JUL07*	27SEP07	402,168	16JAN08	07APR08	107	103													
CMB0602B	Loadout - Rem	34	31JUL07	27SEP07	126,490	13FEB08	05MAY08	107	119													
CMB0602D	Closeout Smpg	159	01OCT07	16JUL08	823,896	06MAY08	23FEB09	119	119													
CMB0602C	Backfill - Rem	17	17JUL08	14AUG08	41,340	24FEB09	24MAR09	119	119													
CMB0602E	Revegetation -	3	18AUG08	20AUG08	1,482	25MAR09	30MAR09	119	119													
CMB0603 Remediate Burial Ground - 618-2																						
CMB0603C	Backfill - Rem	11	21NOV06A	12DEC06A	96,387	02OCT06	25OCT06	-29	-25													
CMB0603M	Compl 618-2	0		21DEC06A	0		27DEC06	1	1													
CMB0603A	Excavation -	43	29AUG05A	28DEC06A	3,119,400	29AUG05	10NOV05	0	-223													
CMB0603B	Loadout - Rem	43	14DEC05A	28DEC06A	1,707,683	27SEP05	13DEC05	-43	-207													
CMB0603D	Closeout Smpg	101	10JUL06A	28DEC06A	277,755	14DEC05	28SEP06	-112	-48													
CMB0603E	Revegetation -	3	14SEP06A	28DEC06A	6,280	26OCT06	31OCT06	24	-30													
CMB0604 Remediate Burial Ground - 618-3																						
CMB0604M	Complete 618-3	0		12JAN06A	0		02MAR06	27	27													
CMB0604D	Closeout Smpg	159	05DEC05A	12SEP06A	171,918	06MAR06	14DEC06	48	52													
CMB0604B	Loadout - Rem	101	29AUG05A	19OCT06A	1,050,356	29AUG05	02MAR06	0	-129													
CMB0604C	Backfill - Rem	11	21NOV06A	12DEC06A	87,553	04FEB08	07APR08	237	262													

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
CMB0604E	Revegetation -	7	21DEC06A	28DEC06A	4,432	08APR08	17APR08	257	261	Revegetation - Rem BG - 618-3												
CMB0605 Remediate Burial Ground - 618-7																						
CMB0605A	Excavation -	177	21MAY07*	08APR08	8,051,608	20MAR06*	09MAY07	-235	-182	Excavation - Rem BG - 618-7												
CMB0605B	Loadout - Rem	202	09APR08	13APR09	1,345,245	17APR06	07JUN07	-396	-368	Loadout - Rem BG - 618-7												
CMB0605D	Closeout Smpng	163	14APR09	04FEB10	457,823	11JUN07	26MAR08	-368	-372	Closeout Smpng - Rem BG - 618-7												
CMB0605C	Backfill - Rem	35	08FEB10	08APR10	308,648	27MAR08	20AUG08	-372	-325	Backfill - Rem BG - 618-7												
CMB0605E	Revegetation -	10	12APR10	27APR10	11,067	21AUG08	18SEP08	-325	-319	Revegetation - Rem BG - 618-7												
CMB0606 Remediate Burial Ground - 618-8																						
CMB0606A	Excavation -	91	29AUG05A	08NOV05A	351,277	02OCT06*	19MAR07	218	268	Excavation - Rem BG - 618-8												
CMB0606D	Closeout Smpng	159	05DEC05A	10AUG06A	249,970	17APR07	31JAN08	272	293	Closeout Smpng - Rem BG - 618-8												
CMB0606B	Loadout - Rem	91	29AUG05A	24AUG06A	992,395	30OCT06	16APR07	234	126	Loadout - Rem BG - 618-8												
CMB0606C	Backfill - Rem	34	24AUG06A	24AUG06A	120,859	04FEB08	01APR08	286	318	Backfill - Rem BG - 618-8												
CMB0606E	Revegetation -	7	21DEC06A	28DEC06A	5,274	21APR08	30APR08	264	268	Revegetation - Rem BG - 618-8												
CMR25 Fld. Rem.-300 Area Non Site Specific Support																						
0041.99902	TPA M-16-03H	0		29AUG05A	0		29JUN06*	167	167	TPA M-16-03H Comp RA 300 FF 1												
0041.99920	TPA M-16-61	0		27APR10*	0		31DEC08*	-264	-264	TPA M-16-61 Comp RA 300 FF 2												
CMR2501 Fld. Rem.-300 Area Non Site Specific Support																						
CMR2501A2	Fld. Rem.-300	199	03OCT05A	17MAY07	2,188,522	03OCT05	28SEP06	0	-126	Fld. Rem.-300 Area Non Site Specific Support												
CMR2501A3	Fld. Rem.-300	199	28SEP06A	27SEP07	1,749,192	02OCT06	27SEP07	1	0	Fld. Rem.-300 Area Non Site Specific Support												
CMR2501A5	Fld. Rem.-300	186	01OCT08	29SEP09	1,007,237	01OCT08	30SEP09	0	1	Fld. Rem.-300 Area Non Site Specific Support												
CMR2501A6	Fld. Rem.-300	200	30SEP09	29SEP10	726,179	01OCT09	30SEP10	1	1	Fld. Rem.-300 Area Non Site Specific Support												
CMR2501A7	Fld. Rem.-300	199	30SEP10	28SEP11	2,968,641	04OCT10	29SEP11	1	1	Fld. Rem.-300 Area Non Site Specific Support												
CMR2501A8	Fld. Rem.-300	199	29SEP11	26SEP12	4,158,440	03OCT11	27SEP12	1	1	Fld. Rem.-300 Area Non Site Specific Support												
<b>400 AREA</b>																						
<b>DD D4</b>																						
AEA0705 D4 Building - 4701B																						
AEA0705A	Plan &	30	01NOV11*	28DEC11	3,033	21NOV11	02APR12	11	52	Plan & Document - 4701B												
AEA0705B	Deact & Decom	5	28DEC11	05JAN12	20,498	18JAN12	08AUG12	11	120	Deact & Decom - 4701B												
AEA0705C	Demolition	5	09JAN12	16JAN12	19,908	09AUG12	01OCT12	120	144	Demolition Above Grade - 4701B												
AEA0705D	Demolition	5	17JAN12	24JAN12	786	02OCT12	18DEC12	144	182	Demolition Below Grade - 4701B												
AEA0705E	Loadout -	3	13MAR12	15MAR12	6,200	29OCT12	12FEB13	128	182	Loadout - 4701B												
AEA0705F	Transition/Final	20	19MAR12	19APR12	2,990	13FEB13	30APR13	182	205	Transition/Final Closure - 4701B												
AEA0706 D4 Building - 4701C																						
AEA0706A	Plan &	30	01NOV11	28DEC11	10,442	21NOV11	02APR12	11	52	Plan & Document - 4701C												
AEA0706B	Deact & Decom	5	28DEC11	05JAN12	30,567	18JAN12	08AUG12	11	120	Deact & Decom - 4701C												

















Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
CPA2201A	Design Solution	284	29AUG05A	15JAN09	195,090	29AUG05	31JAN07	0	-391	Design Solution for 618-10 Burial Ground												
C.2.2.2A	DOE Approve -	90	16JAN09	15APR09	0	01FEB07	01MAY07	-713	-713	DOE Approve - C.2.2.2												
<b>RA Field Remediation</b>																						
CPA2301 Remediate Burial Ground 618-10																						
CPA2301A	Excavation -	775	14NOV07*	03OCT11	5,643,165	20NOV08	08FEB12	204	69	Excavation - Rem BG - 618-10												
CPA2401 Remediate Burial Ground 618-11																						
CPA2401A	Excavation -	745	15JAN08*	03OCT11	5,930,897	20NOV08	08FEB12	174	69	Excavation - Rem BG - 618-11												
CPA2401C	Backfill - Rem	120	20MAR12	18OCT12	300,622	24APR12	27NOV12	20	20	Backfill - Rem BG - 618-11												
CPR2501 Fld. Rem.-600 Area Non Site Specific Support																						
CPR2501A1	Fld. Rem.-600	484	04MAY09*	03OCT11	4,414,250	01OCT08*	30SEP09	-116	-400	Fld. Rem.-600 Area Non Site Specific Su												
CPR2501A2	Fld. Rem.-600	200	04OCT10	03OCT11	8,988,189	01OCT09	30SEP10	-200	-200	Fld. Rem.-600 Area Non Site Specific Suppo												
CPR2501A3	Fld. Rem.-600	199	05OCT10	03OCT11	8,943,341	04OCT10	29SEP11	-1	-1	Fld. Rem.-600 Area Non Site Specific Suppo												
CPR2501A4	Fld. Rem.-600	199	04OCT11	01OCT12	8,232,030	03OCT11	27SEP12	-1	-1	Fld. Rem.-600 Area Non Site Specific Suppo												
CPR2501A5	Fld. Rem.-600	49	02OCT12	02JAN13	233,155	01OCT12	31DEC12	-1	-1	Fld. Rem.-600 Area Non Site Specific Suppo												
<b>SITE SITE</b>																						
<b>DE Remedial Design</b>																						
CQA0101 Fld. Rem. - Miscellaneous Restoration Design																						
CQA0101A	Design -	617	26MAR07	22APR10	0	29AUG05	29SEP08	-312	-312	Design - Miscellaneous Restoration Design												
<b>RA Field Remediation</b>																						
CQR2501 Fld. Rem.-Misc Restoration Non Site Specif Sppt																						
CQR0501A1	Fld. Rem.-Misc	19	01OCT07*	31OCT07	19,226	29AUG05	29SEP05	-417	-417	Fld. Rem.-Misc Restoration Non Site Specific Sup												
CQR0501A2	Fld. Rem.-Misc	199	01OCT07*	25SEP08	203,133	03OCT05	28SEP06	-398	-398	Fld. Rem.-Misc Restoration Non Site Specific Sup												
CQR0501A3	Fld. Rem.-Misc	201	01OCT07*	30SEP08	203,133	02OCT06	27SEP07	-199	-201	Fld. Rem.-Misc Restoration Non Site Specific Sup												
CQR0501A4	Fld. Rem.-Misc	401	01OCT07	30SEP09	205,230	01OCT07	30SEP08	0	-200	Fld. Rem.-Misc Restoration Non Site Specific Sup												
CQR0501A6	Fld. Rem.-Misc	199	04OCT10*	29SEP11	204,131	01OCT09	30SEP10	-200	-199	Fld. Rem.-Misc Restoration Non Site Sp												
CQR0501A7	Fld. Rem.-Misc	199	03OCT11	27SEP12	203,133	04OCT10	29SEP11	-199	-199	Fld. Rem.-Misc Restoration Non Site Specific Su												
CQR0501A8	Fld. Rem.-Misc	116	01OCT12	30APR13	203,133	03OCT11	27SEP12	-199	-116	Fld. Rem.-Misc Restoration Non Site Specific Su												
<b>FC Final Closure</b>																						
EAA4001 ES/FC-Final Closure - Independent Closure Rvws																						
E40.01.30M	TPA M-16-70	0	13OCT05A		0	27OCT05*		8	8	TPA M-16-70 Begin Smply to Sppt 100/300 BL Risk												
E40.01.01	End State	57	03OCT05A	29DEC05A	173,142	29AUG05	08DEC05	-19	-10	End State Strategy												
C.2.2.1A	DOE Approve	30	01FEB06A	01FEB06A	0	27AUG05	25SEP05	-158	-129	DOE Approve C.2.2.1												
C.3.2.1A	DOE Approve	30	29DEC05A	01FEB06A	0	27AUG05	25SEP05	-124	-129	DOE Approve C.3.2.1												
C.3.2.1	Environ.	0		27FEB06A	0		26AUG05*	-185	-185	Environ. Protection & Compliance Plan C.3.2.1												
N40.01.02	100-BC Pilot	175	29AUG05A	20APR06A	140,101	29AUG05	13JUL06	0	46	100-BC Pilot Risk Assessment												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
C.2.3.2	Integr RC WP	0		15MAY06A	0		30SEP06*	138	138													
E40.01.04A	Interim Areas	345	15MAR06A	01FEB07A	119,976	17JAN07*	02OCT08	168	335													
N40.01.06	Risk Integration	197	03OCT05A	13FEB07A	383,148	03OCT05*	26SEP06	0	-75													
C.2.3.2A	DOE Approve	16	26MAR07*	10APR07	0	01OCT06	29NOV06	-176	-132													
E40.01.09	Surface Soil	69	26OCT06A	12APR07	233,043	01OCT07*	24JAN08	184	156													
N40.01.05	Columbia River	207	29SEP05A	30AUG07	578,399	29AUG05	11SEP06	-18	-195													
N40.01.03	100/300 Area	430	29AUG05A	25OCT07	4,364,563	29AUG05	22OCT07	0	-3													
E40.01.11	Surface Soil	69	26OCT06A	07NOV07	155,338	02OCT08*	28JAN09	386	242													
E40.01.13	Surface Soil	69	26OCT06A	07NOV07	155,338	31AUG11*	22DEC11	967	823													
E40.01.15	Surface Soil	69	26OCT06A	07NOV07	155,338	02OCT08*	28JAN09	386	242													
E40.01.10	Surface Soil	118	16APR07	12NOV07	345,280	28JAN08	29JUL08	156	141													
E40.01.04B	Interim Areas	266	16OCT06A	20FEB08	2,630,938	06OCT08	07APR09	394	226													
N40.01.04C	Interim Areas	668	15MAR06A	20FEB08	781,000	17JAN07	18MAY10	168	449													
N40.01.07	Source Areas	224	25JAN10*	08MAR11	704,235	21APR10	28APR11	49	30													
N40.01.08	Source Area	190	02JUN10	12MAY11	110,027	30AUG10	08NOV11	49	99													
E40.01.17	Surface Soil	69	26OCT06A	06DEC12	155,338	15AUG12*	06DEC12	1,158	0													
E40.01.12	Surface Soil	103	24JUL12*	29JAN13	2,177,412	01NOV12*	09MAY13	57	57													
E40.01.14	Surface Soil	103	30OCT12*	07MAY13	762,471	20SEP12*	28MAR13	-22	-22													
<b>EAA4101 ES/FC-Long-Term Stewardship</b>																						
E41.01.01A	Charter Draft	149	03OCT05A	20MAR06A	27,863	03OCT05*	29JUN06	0	58													
E41.01.02	300 Area	106	20DEC05A	19JUL06A	18,899	03JAN06*	11JUL06	5	-5													
E41.01.20	300-FF-1	19	26MAR07*	25APR07	0	29AUG05*	29SEP05	-312	-312													
E41.01.01B	Draft	249	13MAR06A	19JUN07	320,096	03JUL06	27SEP07	63	56													
E41.01.07	100-BC-1	123	26MAR07*	30OCT07	105,482	02JAN07*	25SEP07	-46	-20													
E41.01.22	Pilot	67	13NOV07	18MAR08	134,196	30JUL08	25NOV08	141	141													
E41.01.30D	LTS Direct	199	01OCT07	25SEP08	64,526	01OCT07	29SEP08	0	1													
E41.01.09	100-FR-1	149	05JAN09*	28SEP09	105,482	29NOV12*	27AUG13	782	782													
E41.01.10	100-FR-2	149	05JAN09	28SEP09	105,482	29NOV12	27AUG13	782	782													
E41.01.30E	LTS Direct	200	29SEP08	28SEP09	64,188	30SEP08	29SEP09	1	1													
E41.01.08	100-BC-2	149	23APR09	21JAN10	105,482	29NOV12	27AUG13	720	720													
E41.01.30F	LTS Direct	201	29SEP09	29SEP10	64,188	30SEP09	30SEP10	1	1													
E41.01.30G	LTS Direct	199	30SEP10	28SEP11	63,850	04OCT10	29SEP11	1	1													
E41.01.15	100-DR-1	149	01AUG11	26APR12	105,482	05JUL11	02APR12	-15	-15													
E41.01.16	100-DR-2	149	01AUG11	26APR12	105,482	05JUL11	02APR12	-15	-15													











Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
C.5.2	Project	0	22NOV05A		0	24NOV05*		2	2														
C.5.1A	DOE Approve	30	27AUG05A	02DEC05A	0	27AUG05	25SEP05	0	-68														
C.5.3A	DOE Approve	15	27AUG05A	02DEC05A	0	27AUG05	10SEP05	0	-83														
C.5.4.1A	DOE Approve	30	27AUG05A	02DEC05A	0	27AUG05	25SEP05	0	-68														
C.3.2.6A	DOE Approve	30	27AUG05A	16FEB06A	0	27AUG05	25SEP05	0	-144														
C.5.2A	DOE Approve	60	25NOV05A	22JUN06A	0	25NOV05	23JAN06	0	-150														
C.3.1_P1BA	DOE Appr Final	90	28FEB06A	05SEP06A	0	28FEB06	28MAY06	0	-100														
C.4.1FY07	GFSI Request	0	26MAR07*		0	17AUG06*		-221	-221														
C.3.1_P2	ISMSD Ph II	0		03JUN07	0	29MAY06	22FEB07	-370	-100														
<b>Z3 Contingency</b>																							
JAA0101 Contingency																							
JAA0101A1	Contingency	19	15MAY06A	15MAY06A	0	29AUG05	29SEP05	-141	-123														
JAA0101A2	Contingency	199	15MAY06A	19OCT06A	0	03OCT05	28SEP06	-122	-12														



**APPENDIX O**  
**SCENARIO 2 VARIANCE SCHEDULE**



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16
<b>MARH Scenario 2_FINAL</b>																					
<b>100 B/C AR</b>																					
<b>DE Remedial Design</b>																					
CAD0101 Fld. Rem.-100 B/C Area Design																					
CAD0101A	Fld. Rem.-100	199	29AUG05A	23OCT06A	8,996	03OCT05*	28SEP06	19	-13												
<b>RA Field Remediation</b>																					
CAA0301 Confirmatory Sampling Site - 126-B-2																					
CAA0301A	Work	50	05OCT06A	31JAN07A	19,521	02OCT06*	03JAN07	-3	-16												
CAA0301B	Smplg and	25	31JAN07A	31JAN07A	40,126	04JAN07	15FEB07	-15	9												
CAA0301C	RSVP or RTD	63	31JAN07A	22MAR07A	10,137	20FEB07	18JUL07	10	65												
CAA0302 Confirmatory Sampling Site - 1607-B1																					
CAA0302A	Work	57	04OCT06A	24JAN07A	19,521	05SEP06*	04DEC06	-17	-27												
CAA0302B	Smplg and	25	26MAR07	07MAY07	25,530	05DEC06	22JAN07	-59	-59												
CAA0302C	RSVP or RTD	77	08MAY07	24SEP07	10,137	23JAN07	20JUN07	-59	-52												
CAA0307 Confirmatory Sampling Site - 100-B-21																					
CAA0307A	Work	50	01SEP05A	16FEB06A	45,192	01OCT07*	02JAN08	414	373												
CAA0307B	Smplg and	91	01SEP05A	16FEB06A	144,183	15JAN08	27FEB08	470	404												
CAA0307C	RSVP or RTD	84	01SEP05A	16FEB06A	60,812	28FEB08	28JUL08	495	488												
CAA0308 Confirmatory Sampling Site - 100-B-20																					
CAA0308A	Work	50	05JAN06A	13MAR06A	7,532	31AUG05*	30NOV05	-67	-54												
CAA0308B	Smplg and	25	05JAN06A	13MAR06A	25,532	10JAN06	22FEB06	2	-10												
CAA0308C	RSVP or RTD	84	27FEB06A	27SEP06A	10,137	23FEB06	24JUL06	-1	-37												
CAA0309 Confirmatory Sampling Site - 118-B-8:1																					
CAA0309A	Work	50	05JAN06A	05JAN06A	7,532	03OCT05*	04JAN06	-50	-1												
CAA0309B	Smplg and	25	05JAN06A	05JAN06A	25,532	12JAN06	27FEB06	4	28												
CAA0309C	RSVP or RTD	84	03OCT05A	05JAN06A	10,137	28FEB06	26JUL06	79	112												
CAA0310 Confirmatory Sampling Site - 118-C-3:3																					
CAA0310B	Smplg and	25	03JAN06A	27MAR06A	25,532	17JAN06	01MAR06	8	-14												
CAA0310A	Work	50	03JAN06A	28MAR06A	7,532	05OCT05*	09JAN06	-46	-44												
CAA0310C	RSVP or RTD	84	27FEB06A	26APR06A	10,137	02MAR06	31JUL06	3	52												
Start Date	31JAN05	Early Bar		MARH		River Corridor Closure Contract		Sheet 1 of 128													
Finish Date	15OCT13	Target Bar				300 Area Utility Relocation Project		02JUL07 14:53													
Data Date	26MAR07	Progress Bar				Variance															
Run Date	02JUL07 14:53	Critical Activity																			
Appendix O Scenario 2																					
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Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt Chart Area																
<b>CAA0311 Confirmatory Sampling Site - 100-B-24</b>											■ Work Instructions - CS Site - 100-B-24															
CAA0311A	Work	50	04OCT05A	08DEC05A	7,532	02OCT06*	03JAN07	198	211	■ Smpg and Analysis - CS Site - 100-B-24																
CAA0311B	Smpg and	25	17JAN06A	14MAR06A	25,532	03JAN08	14FEB08	392	385	■ RSVP or RTD Report - CS Site - 100-B-24																
CAA0311C	RSVP or RTD	84	27FEB06A	21SEP06A	10,137	19FEB08	16JUL08	395	362																	
<b>CAA0312 Confirmatory Sampling Site - 100-B-25</b>											■ Work Instructions - CS Site - 100-B-25															
CAA0312A	Work	50	04OCT05A	30NOV05A	7,532	02OCT06*	03JAN07	198	216	■ Smpg and Analysis - CS Site - 100-B-25																
CAA0312B	Smpg and	25	11JAN06A	11JAN06A	25,532	08JAN08	20FEB08	397	421	■ RSVP or RTD Report - CS Site - 100-B-25																
CAA0312C	RSVP or RTD	84	11JAN06A	11JAN06A	10,137	21FEB08	21JUL08	422	505																	
<b>CAA0313 Confirmatory Sampling Site - 100-B-26</b>											■ Work Instructions - CS Site - 100-B-26															
CAA0313A	Work	50	04OCT05A	08DEC05A	7,532	02OCT06*	03JAN07	198	211	■ Smpg and Analysis - CS Site - 100-B-26																
CAA0313B	Smpg and	25	17JAN06A	14MAR06A	25,532	10JAN08	25FEB08	396	389	■ RSVP or RTD Report - CS Site - 100-B-26																
CAA0313C	RSVP or RTD	84	27FEB06A	21SEP06A	10,137	26FEB08	23JUL08	399	366																	
<b>CAB0402 Remediate Liquid Waste Site - 100-B-8</b>											■ Revegetation - Rem Liq WS - 100-B-8 (inc 118-B-2)															
CAB0402E	Revegetation -	260	02JAN07A	22FEB07A	0	28NOV05*	16MAR06	-217	-187																	
<b>CAB0404 Rem LW Site -100-B-15(116B7,132B6,132C2,100C6)</b>											■ Revegetation - Rem Liq Wst Site - 100-B-15 (inc															
CAB0404E	Revegetation -	215	02JAN07A	22FEB07A	269,475	06SEP05*	06SEP05	-262	-291																	
<b>CAB0501 Remediate Waste Site - 100-B-16</b>											■ Backfill - Rem Wst Site - 100-B-16															
CAB0501C	Backfill - Rem	2	27FEB06A	27FEB06A	9,345	22NOV05*	28NOV05	-49	-48	■ Revegetation - Rem Wst Site - 100-B-16																
CAB0501E	Revegetation -	65	05SEP06A	12DEC07	761	29NOV05	23MAR06	-153	-345																	
<b>CAB0502 Remediate Waste Site - 118-B-8</b>											■ Excavation Process - Rem Wst Site - 118-B-8															
CAB0502A	Excavation	3	03JAN11*	05JAN11	0	01OCT09*	06OCT09	-247	-247	■ Loadout - Rem Wst Site - 118-B-8																
CAB0502B	Loadout - Rem	3	31JAN11	02FEB11	0	29OCT09	03NOV09	-247	-247	■ Closeout Smpg - Rem Wst Site - 118-B-8																
CAB0502D	Closeout Smpg	159	03FEB11	15NOV11	0	04NOV09	23AUG10	-247	-247	■ Backfill - Rem Wst Site - 118-B-8																
CAB0502C	Backfill - Rem	1	16NOV11	16NOV11	0	24AUG10	24AUG10	-247	-247	■ Revegetation - Rem Wst Site - 118-B-8																
CAB0502E	Revegetation -	1	17NOV11	17NOV11	0	25AUG10	25AUG10	-247	-247																	
<b>CAB0503 Remediate Waste Site - 120-B-1</b>											■ Excavation Process - Rem Wst Site - 120-B-1															
CAB0503A	Excavation	8	06JUN06A	13JUN06A	17,170	26OCT05*	31OCT05	-120	-122	■ Backfill - Rem Wst Site - 120-B-1																
CAB0503C	Backfill - Rem	3	13JUN06A	13JUN06A	2,343	19SEP06	19SEP06	54	54	■ Closeout Smpg - Rem Wst Site - 120-B-1																
CAB0503D	Closeout Smpg	129	05JUN06A	28SEP06A	19,223	01DEC05	18SEP06	-100	-7	■ Loadout - Rem Wst Site - 120-B-1																
CAB0503B	Loadout - Rem	17	30MAY06A	02OCT06A	49,035	28NOV05	30NOV05	-100	-167	■ Revegetation - Rem Wst Site - 120-B-1																
CAB0503E	Revegetation -	260	05SEP06A	20DEC07	306	20SEP06	20SEP06	9	-250																	
<b>CAB0504 Remediate Waste Site - 126-B-3, 184 B Coal Pit</b>											■ Loadout - Rem Wst Site - 126-B-3															
CAB0504B	Loadout - Rem	79	12DEC05A	27MAR06A	9,751	03OCT05*	03OCT05	-38	-94	■ Closeout Smpg - Rem Wst Site - 126-B-3																
CAB0504D	Closeout Smpg	222	29AUG05A	10AUG06A	72,770	20DEC05*	04OCT06	62	30	■ Backfill - Rem Wst Site - 126-B-3																
CAB0504C	Backfill - Rem	22	03OCT05A	02OCT06A	309,061	05OCT06	24OCT06	202	13	■ Revegetation - Rem Wst Site - 126-B-3																
CAB0504E	Revegetation -	260	05SEP06A	03JAN07A	4,547	25OCT06	30OCT06	29	-33																	

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt Chart Area																
<b>CAB0505 Remediate Waste Site - 128-B-3,Coal Ash,Demo Wst</b>																										
CAB0505B	Loadout - Rem	16	13DEC05A	03JUL06A	134,976	31OCT05	31OCT05	-23	-133																	
CAB0505A	Excavation	1	31OCT05A	02OCT06A	732,888	03OCT05*	03OCT05	-16	-199																	
CAB0505D	Closeout Smpplg	157	09JAN06A	16NOV06A	72,007	13FEB06*	27NOV06	20	3																	
CAB0505C	Backfill - Rem	4	18DEC06A	30JAN07A	65,190	28NOV06	04DEC06	-11	-30																	
CAB0505E	Revegetation -	260	05SEP06A	26FEB07A	6,277	05DEC06	05DEC06	50	-43																	
<b>CAB0506 Remediate Waste Site - 132-B-2</b>																										
CAB0506A	Excavation	3	03JAN11*	05JAN11	0	01OCT09*	06OCT09	-247	-247																	
CAB0506B	Loadout - Rem	3	31JAN11	02FEB11	0	29OCT09	03NOV09	-247	-247																	
CAB0506D	Closeout Smpplg	159	03FEB11	15NOV11	0	04NOV09	23AUG10	-247	-247																	
CAB0506C	Backfill - Rem	1	16NOV11	16NOV11	0	24AUG10	24AUG10	-247	-247																	
CAB0506E	Revegetation -	1	17NOV11	17NOV11	0	25AUG10	25AUG10	-247	-247																	
<b>CAB0507 Remediate Waste Site - 600-230</b>																										
CAB0507A	Excavation	2	30MAY06A	22JUN06A	1,964	02OCT06*	03OCT06	69	56																	
CAB0507B	Loadout - Rem	2	30MAY06A	22JUN06A	298	30OCT06	31OCT06	85	72																	
CAB0507C	Backfill - Rem	1	30MAY06A	22JUN06A	287	21AUG07	21AUG07	246	232																	
CAB0507D	Closeout Smpplg	159	30MAY06A	22JUN06A	264	01NOV06	20AUG07	87	231																	
CAB0507E	Revegetation -	205	05SEP07*	11SEP08	23	22AUG07	22AUG07	-7	-211																	
<b>CAB0508 Remediate Waste Site - 1607-B5</b>																										
CAB0508B	Loadout - Rem	11	30APR07	16MAY07	7,306	07NOV06	13NOV06	-93	-100																	
CAB0508A	Excavation	43	02APR07*	14JUN07	45,312	10OCT06*	17OCT06	-93	-131																	
CAB0508D	Closeout Smpplg	57	17MAY07	28AUG07	38,446	14NOV06	30AUG07	-100	2																	
CAB0508C	Backfill - Rem	4	29AUG07	05SEP07	9,886	04SEP07	05SEP07	2	0																	
CAB0508E	Revegetation -	260	06SEP07	23DEC08	1,203	06SEP07	06SEP07	0	-259																	
<b>CAB0509 Remediate Waste Site - 100-B-17</b>																										
CAB0509B	Loadout - Rem	11	29OCT07	14NOV07	0	02MAR06	08MAR06	-333	-340																	
CAB0509A	Excavation	35	01OCT07*	03DEC07	16,795	01FEB06*	08FEB06	-333	-363																	
CAB0509D	Closeout Smpplg	57	15NOV07	04MAR08	10,137	09MAR06	20DEC06	-340	-238																	
CAB0509C	Backfill - Rem	4	05MAR08	11MAR08	0	21DEC06	27DEC06	-238	-240																	
CAB0509E	Revegetation -	260	19JUL07	03NOV08	0	28DEC06	28DEC06	-112	-371																	
<b>CAB0510 Remediate Waste Site - 100-B-14</b>																										
CAB0510B	Loadout - Rem	47	31JAN06A	16NOV06A	18,330	02JUL12	09JUL12	1,283	1,124																	
CAB0510C	Backfill - Rem	30	28NOV05A	21DEC06A	3,930,827	25APR13	29APR13	1,480	1,267																	
CAB0510D	Closeout Smpplg	210	03OCT05A	14MAR07A	435,993	10JUL12	24APR13	1,351	1,222																	
CAB0510A	Excavation	42	08FEB06A	20MAR07A	204,172	04JUN12*	07JUN12	1,262	1,044																	











Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
<b>DD D4</b>																						
AAB0704 D4 Building - 190DR (See Also WS 100-D-60)																						
AAB0704E	Loadout -	80	29AUG05A	07SEP06A	90,538	03OCT05*	28FEB06	19	-107	■ Loadout - 190DR												
AAB0704F	Transition/Final	101	26MAR07	20SEP07	91,201	01MAR06	28AUG06	-213	-213	■ Transition/Final Closure - 190DR												
AAB0705 D4 Building - MO-200																						
AAB0705A	Plan &	23	24APR06A	26APR06A	2,783	18APR11*	25MAY11	995	1,015	■ Plan & Document - MO-200												
AAB0705B	Deact & Decom	37	27APR06A	04MAY06A	0	03MAY11	07JUL11	1,001	1,033	■ Deact & Decom - MO-200												
AAB0705C	Demolition	9	08MAY06A	11MAY06A	11,700	11JUL11	25JUL11	1,033	1,038	■ Demolition Above Grade - MO-200												
AAB0705D	Demolition	14	15MAY06A	18MAY06A	0	26JUL11	17AUG11	1,038	1,048	■ Demolition Below Grade - MO-200												
AAB0705E	Loadout -	19	18MAY06A	23MAY06A	0	02AUG11	01SEP11	1,039	1,055	■ Loadout - MO-200												
AAB0705F	Transition/Final	14	24MAY06A	25MAY06A	1,070	06SEP11	28SEP11	1,055	1,067	■ Transition/Final Closure - MO-200												
AAB0708 D4 Building - MO-561																						
AAB0708A	Plan &	23	24APR06A	26APR06A	2,791	18APR11*	25MAY11	995	1,015	■ Plan & Document - MO-561												
AAB0708B	Deact & Decom	37	27APR06A	04MAY06A	0	03MAY11	07JUL11	1,001	1,033	■ Deact & Decom - MO-561												
AAB0708C	Demolition	9	01MAY06A	04MAY06A	12,284	11JUL11	25JUL11	1,037	1,042	■ Demolition Above Grade - MO-561												
AAB0708D	Demolition	14	08MAY06A	11MAY06A	0	26JUL11	17AUG11	1,042	1,052	■ Demolition Below Grade - MO-561												
AAB0708E	Loadout -	19	15MAY06A	18MAY06A	0	02AUG11	01SEP11	1,042	1,057	■ Loadout - MO-561												
AAB0708F	Transition/Final	14	22MAY06A	25MAY06A	1,123	06SEP11	28SEP11	1,057	1,067	■ Transition/Final Closure - MO-561												
AAB0710 D4 Building - MO-829																						
AAB0710A	Plan &	23	16JAN07A	05APR07	2,959	18APR11*	25MAY11	850	827	■ Plan & Document - MO-829												
AAB0710B	Deact & Decom	8	02JUL07*	16JUL07	0	03MAY11	07JUL11	766	795	■ Deact & Decom - MO-829												
AAB0710C	Demolition	8	17JUL07	30JUL07	12,739	11JUL11	25JUL11	795	796	■ Demolition Above Grade - MO-829												
AAB0710D	Demolition	8	31JUL07	13AUG07	0	26JUL11	17AUG11	796	802	■ Demolition Below Grade - MO-829												
AAB0710E	Loadout -	16	01AUG07	28AUG07	0	02AUG11	01SEP11	799	802	■ Loadout - MO-829												
AAB0710F	Transition/Final	16	29AUG07	26SEP07	1,165	06SEP11	28SEP11	802	800	■ Transition/Final Closure - MO-829												
AAB1002 D4 Retention Basin - 188D																						
AAB1002A	Plan &	50	05JAN11	04APR11	82,778	06JAN11	05APR11	1	1	■ Plan & Document - 188D												
AAB1002B	Deact & Decom	80	09FEB11	30JUN11	1,728	10FEB11	05JUL11	1	1	■ Deact & Decom - 188D												
AAB1002C	Demolition	20	05JUL11	08AUG11	12,241	06JUL11	09AUG11	1	1	■ Demolition Above Grade - 188D												
AAB1002D	Demolition	30	09AUG11	29SEP11	251,790	10AUG11	03OCT11	1	1	■ Demolition Below Grade - 188D												
AAB1002E	Loadout - 188D	40	25AUG11	03NOV11	182,640	29AUG11	07NOV11	1	1	■ Loadout - 188D												
AAB1002F	Transition/Final	30	07NOV11	04JAN12	33,754	08NOV11	05JAN12	1	1	■ Transition/Final Closure - 188D												
<b>RA Field Remediation</b>																						
CBA0301 CS Site - 100 D-DR -MiscPipg (100-D-31,100-D-50)																						
CBA0301A	Work	25	31AUG05A	01SEP05A	52,725	29AUG05	11OCT05	-2	21	■ Work Instructions - CS Site - 100 DDR - Misc Pip												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
CBA0301B	Smplg and	49	07NOV05A	21DEC06A	168,213	12OCT05	12JAN06	-14	-190	Smplg and Analysis - CS Site - 100 DDR - Misc Pi												
CBA0301C	RSVP or RTD	84	31AUG05A	09AUG07	70,946	16JAN06	13JUN06	72	-232	RSVP or RTD Report - CS Site - 100 DDR - Misc Pi												
CBA0302 Confirmatory Sampling Site - 100-D-13																						
CBA0302C	RSVP or RTD	84	29AUG05A	03OCT05A	2,539	29AUG05	31JAN06	0	64	RSVP or RTD Report - CS Site - 100-D-13												
CBA0303 Confirmatory Sampling Site - 100-D-14																						
CBA0303A	Work	50	17OCT05A	01DEC05A	7,532	03OCT05*	04JAN06	-8	16	Work Instructions - CS Site - 100-D-14												
CBA0303B	Smplg and	25	03JAN06A	12JUL07	0	05JAN06	16FEB06	2	-280	Smplg and Analysis - CS Site - 100-D-14												
CBA0303C	RSVP or RTD	84	27FEB06A	12NOV07	10,137	21FEB06	19JUL06	-3	-264	RSVP or RTD Report - CS Site - 100-D-14												
CBA0305 Confirmatory Sampling Site - 100-D-24																						
CBA0305B	Smplg and	25	03NOV05A	17JAN06A	17,268	16NOV05*	05JAN06	7	-6	Smplg and Analysis - CS Site - 100-D-24												
CBA0305C	RSVP or RTD	84	16JAN06A	26SEP06A	10,137	09JAN06	06JUN06	-4	-62	RSVP or RTD Report - CS Site - 100-D-24												
CBA0309 Confirmatory Sampling Site - 100-D-7																						
CBA0309B	Smplg and	25	02NOV05A	19DEC05A	69,651	31OCT05*	14DEC05	-2	-2	Smplg and Analysis - CS Site - 100-D-7												
CBA0309C	RSVP or RTD	84	28NOV05A	16FEB06A	20,270	15DEC05	17MAY06	11	50	RSVP or RTD Report - CS Site - 100-D-7												
CBA0310 Confirmatory Sampling Site - 100-D-8																						
CBA0310B	Smplg and	25	03OCT05A	16FEB06A	69,651	27OCT05*	13DEC05	15	-35	Smplg and Analysis - CS Site - 100-D-8												
CBA0310C	RSVP or RTD	84	16FEB06A	04APR06A	20,270	14DEC05	16MAY06	-34	24	RSVP or RTD Report - CS Site - 100-D-8												
CBA0311 Confirmatory Sampling Site - 100-D-9																						
CBA0311A	Work	50	17OCT05A	08DEC05A	15,065	17OCT05*	18JAN06	0	20	Work Instructions - CS Site - 100-D-9												
CBA0311B	Smplg and	25	03JAN06A	04APR06A	46,796	19JAN06	06MAR06	10	-17	Smplg and Analysis - CS Site - 100-D-9												
CBA0311C	RSVP or RTD	84	20MAR06A	10AUG06A	20,270	07MAR06	02AUG06	-7	-5	RSVP or RTD Report - CS Site - 100-D-9												
CBA0314 Confirmatory Sampling Site - 116-DR-8																						
CBA0314C	RSVP or RTD	84	31AUG05A	03OCT05A	2,539	03OCT05*	07MAR06	17	83	RSVP or RTD Report - CS Site - 116-DR-8												
CBA0316 Confirmatory Sampling Site - 128-D-2																						
CBA0316B	Smplg and	25	25OCT05A	12JAN06A	69,651	19JAN06*	06MAR06	45	28	Smplg and Analysis - CS Site - 128-D-2												
CBA0316C	RSVP or RTD	84	28NOV05A	06MAR06A	20,270	07MAR06	02AUG06	53	84	RSVP or RTD Report - CS Site - 128-D-2												
CBA0318 Confirmatory Sampling Site - 132-D-1																						
CBA0318C	RSVP or RTD	84	08SEP05A	03MAY07	15,294	17JAN06	14JUN06	69	-177	RSVP or RTD Report - CS Site - 132-D-1												
CBA0318A	Work	50	26MAR07	20JUN07	7,532	29AUG05	28NOV05	-312	-312	Work Instructions - CS Site - 132-D-1												
CBA0318B	Smplg and	25	21JUN07	06AUG07	69,651	29NOV05	16JAN06	-312	-312	Smplg and Analysis - CS Site - 132-D-1												
CBA0319 Confirmatory Sampling Site - 132-D-2																						
CBA0319C	RSVP or RTD	84	29AUG05A	12DEC05A	15,294	17JAN06	14JUN06	75	101	RSVP or RTD Report - CS Site - 132-D-2												
CBA0319A	Work	50	29AUG05A	16MAY06A	7,532	29AUG05	28NOV05	0	-93	Work Instructions - CS Site - 132-D-2												
CBA0319B	Smplg and	25	29AUG05A	16MAY06A	69,651	29NOV05	16JAN06	50	-68	Smplg and Analysis - CS Site - 132-D-2												
CBA0320 Confirmatory Sampling Site - 132-D-3																						
CBA0320C	RSVP or RTD	84	08SEP05A	12DEC05A	15,294	17JAN06	14JUN06	69	101	RSVP or RTD Report - CS Site - 132-D-3												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year															
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16				
CBA0320A	Work	50	08SEP05A	16MAY06A	15,065	29AUG05	28NOV05	-6	-93	Work Instructions - CS Site - 132-D-3															
CBA0320B	Smplg and	25	08SEP05A	16MAY06A	46,796	29NOV05	16JAN06	44	-68	Smplg and Analysis - CS Site - 132-D-3															
CBA0321 Confirmatory Sampling Site - 132-DR-1																									
CBA0321A	Work	50	03OCT05A	03OCT05A	15,065	29AUG05	28NOV05	-19	30	Work Instructions - CS Site - 132-DR-1															
CBA0321B	Smplg and	25	03OCT05A	03OCT05A	46,796	29NOV05	16JAN06	31	55	Smplg and Analysis - CS Site - 132-DR-1															
CBA0321C	RSVP or RTD	84	03OCT05A	03OCT05A	20,270	17JAN06	14JUN06	56	139	RSVP or RTD Report - CS Site - 132-DR-1															
CBA0322 Confirmatory Sampling Site - 1607-D1																									
CBA0322A	Work	50	17OCT05A	08DEC05A	7,532	31OCT05*	01FEB06	8	28	Work Instructions - CS Site - 1607-D1															
CBA0322B	Smplg and	25	29DEC05A	16FEB06A	29,530	02FEB06	20MAR06	19	16	Smplg and Analysis - CS Site - 1607-D1															
CBA0322C	RSVP or RTD	84	21FEB06A	13JUN06A	20,270	21MAR06	16AUG06	16	36	RSVP or RTD Report - CS Site - 1607-D1															
CBA0323 Confirmatory Sampling Site - 1607-D4																									
CBA0323C	RSVP or RTD	84	29AUG05A	27FEB06A	2,539	29AUG05	31JAN06	0	-14	RSVP or RTD Report - CS Site - 1607-D4															
CBA0324 Confirmatory Sampling Site - 1607-D5																									
CBA0324B	Smplg and	1	03OCT05A	29SEP05A	29,530	29AUG05	29AUG05	-19	-18	Smplg and Analysis - CS Site - 1607-D5															
CBA0324C	RSVP or RTD	84	12JAN06A	30JAN06A	20,270	29AUG05	31JAN06	-73	1	RSVP or RTD Report - CS Site - 1607-D5															
CBA0328 Confirmatory Sampling Site - 100-D-65																									
CBA0328A	Work	50	03OCT05A	08DEC05A	22,596	03OCT05*	04JAN06	0	12	Work Instructions - CS Site - 100-D-65															
CBA0328B	Smplg and	25	04JAN06A	29MAR06A	80,594	05JAN06	16FEB06	1	-22	Smplg and Analysis - CS Site - 100-D-65															
CBA0328C	RSVP or RTD	84	20MAR06A	26APR06A	30,406	21FEB06	19JUL06	-15	46	RSVP or RTD Report - CS Site - 100-D-65															
CBA0329 Confirmatory Sampling Site - 100-D-66																									
CBA0329A	Work	50	03OCT05A	08DEC05A	22,596	17OCT05*	18JAN06	8	20	Work Instructions - CS Site - 100-D-66															
CBA0329B	Smplg and	25	05JAN06A	29MAR06A	80,594	19JAN06	06MAR06	8	-14	Smplg and Analysis - CS Site - 100-D-66															
CBA0329C	RSVP or RTD	84	20MAR06A	26APR06A	30,406	07MAR06	02AUG06	-7	54	RSVP or RTD Report - CS Site - 100-D-66															
CBA0330 Confirmatory Sampling Site - 100-D-67																									
CBA0330A	Work	50	12OCT05A	27DEC05A	15,065	31OCT05*	01FEB06	10	20	Work Instructions - CS Site - 100-D-67															
CBA0330B	Smplg and	25	09FEB06A	09FEB06A	55,062	02FEB06	20MAR06	-4	20	Smplg and Analysis - CS Site - 100-D-67															
CBA0330C	RSVP or RTD	84	09FEB06A	23FEB06A	20,270	21MAR06	16AUG06	21	97	RSVP or RTD Report - CS Site - 100-D-67															
CBA0331 Confirmatory Sampling Site - 100-D-62																									
CBA0331A	Work	50	01OCT07*	02JAN08	15,065	03OCT05*	04JAN06	-398	-398	Work Instructions - CS Site - 100-D-62															
CBA0331B	Smplg and	25	03JAN08	14FEB08	55,062	05JAN06	16FEB06	-398	-398	Smplg and Analysis - CS Site - 100-D-62															
CBA0331C	RSVP or RTD	84	19FEB08	16JUL08	20,270	21FEB06	19JUL06	-398	-398	RSVP or RTD Report - CS Site - 100-D-62															
CBA0332 Confirmatory Sampling Site - 100-D-63																									
CBA0332A	Work	50	01OCT07*	02JAN08	82,852	03OCT05*	04JAN06	-398	-398	Work Instructions - CS Site - 100-D-63															
CBA0332B	Smplg and	25	03JAN08	14FEB08	269,834	05JAN06	16FEB06	-398	-398	Smplg and Analysis - CS Site - 100-D-63															
CBA0332C	RSVP or RTD	84	19FEB08	16JUL08	111,488	21FEB06	19JUL06	-398	-398	RSVP or RTD Report - CS Site - 100-D-63															

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
<b>CBA0333 Confirmatory Sampling Site - Septic Tk 100-Dtrtm</b>																						
CBA0333A	Work	50	01OCT07*	02JAN08	25,200	03OCT05*	04JAN06	-398	-398	■ Work Instructions - CS Site - Septic Tk - 100 D												
CBA0333B	Smpgl and	25	03JAN08	14FEB08	55,062	05JAN06	16FEB06	-398	-398	■ Smpgl and Analysis - CS Site - Septic Tk - 100 D												
CBA0333C	RSVP or RTD	84	19FEB08	16JUL08	10,137	21FEB06	19JUL06	-398	-398	■ RSVP or RTD Report - CS Site - Septic Tk - 100 D												
<b>CBB0401 Remediate Liquid Waste Site - 100-D-1</b>																						
CBB0401A	Excavation	1	22OCT08*	22OCT08	7,504	01OCT09*	07OCT09	188	191	■ Excavation Process - Rem Liq Wst Site - 100-D-1												
CBB0401B	Loadout - Rem	2	30JUN09*	01JUL09	5,224	01OCT09	07OCT09	52	54	■ Loadout - Rem Liq Wst Site - 100-D-1												
CBB0401D	Closeout	190	20OCT08	30SEP09	30,843	08OCT09	21SEP10	194	194	■ Closeout Sampling & Doc - Rem Liq Wst - 100-D-1												
CBB0401C	Backfill - Rem	2	19JUL11	20JUL11	2,614	16MAY11	17MAY11	-35	-35	■ Backfill - Rem Liq Wst Site - 100-D-1												
CBB0401E	Revegetation -	1	30NOV11*	30NOV11	352	25OCT11	25OCT11	-19	-19	■ Revegetation - Rem Liq Wst Site - 100-D-1												
<b>CBB0402 Remediate Liquid Waste Site - 100-D-29</b>																						
CBB0402A	Excavation	14	28AUG08*	23SEP08	0	08OCT09	12OCT09	222	210	■ Excavation Process - Rem Liq Wst Site - 100-D-29												
CBB0402B	Loadout - Rem	18	21APR09*	20MAY09	0	08OCT09	12OCT09	95	79	■ Loadout - Rem Liq Wst Site - 100-D-29												
CBB0402D	Closeout	154	15SEP08	22JUN09	11,115	13OCT09	23SEP10	216	252	■ Closeout Sampling & Doc - Rem Liq Wst - 100-D-29												
CBB0402C	Backfill - Rem	1	21JUL11*	21JUL11	0	18MAY11	18MAY11	-35	-35	■ Backfill - Rem Liq Wst Site - 100-D-29												
CBB0402E	Revegetation -	1	01DEC11	01DEC11	0	26OCT11	26OCT11	-19	-19	■ Revegetation - Rem Liq Wst Site - 100-D-29												
<b>CBB0403 Remediate Liquid Waste Site - 100-D-56</b>																						
CBB0403A	Excavation	50	13JUN06A	29MAR07	75,559	13OCT09	05NOV09	667	523	■ Excavation Process - Rem Liq Wst Site - 100-D-56												
CBB0403B	Loadout - Rem	20	28DEC06A	29MAR07	10,959	13OCT09	26OCT09	559	516	■ Loadout - Rem Liq Wst Site - 100-D-56												
CBB0403D	Closeout	141	15NOV06A	27SEP07	56,912	27OCT09	07OCT10	588	605	■ Closeout Sampling & Doc - Rem Liq Wst - 100-D-56												
CBB0403C	Backfill - Rem	6	01OCT08*	09OCT08	27,926	19MAY11	31MAY11	525	525	■ Backfill - Rem Liq Wst Site - 100-D-56												
CBB0403E	Revegetation -	1	05DEC11	05DEC11	13,150	27OCT11	27OCT11	-19	-19	■ Revegetation - Rem Liq Wst Site - 100-D-56												
<b>CBB0404 Remediate Liquid Waste Site - 120-D-2</b>																						
CBB0404B	Loadout - Rem	6	29SEP10	07OCT10	67,906	30NOV09	01JUN10	-167	-72	■ Loadout - Rem Liq Wst Site - 120-D-2												
CBB0404A	Excavation	7	29SEP10	11OCT10	560,845	30NOV09	01JUN10	-167	-73	■ Excavation Process - Rem Liq Wst Site - 120-D-2												
CBB0404D	Closeout	153	11OCT10	18JUL11	147,118	02JUN10	12MAY11	-72	-35	■ Closeout Sampling & Doc - Rem Liq Wst -												
CBB0404C	Backfill - Rem	70	19JUL11*	17NOV11	30,726	14JUN11	17OCT11	-19	-19	■ Backfill - Rem Liq Wst Site - 120-D-2												
CBB0404E	Revegetation -	10	08DEC11	28DEC11	1,482	02NOV11	17NOV11	-19	-19	■ Revegetation - Rem Liq Wst Site - 120-D-2												
<b>CBB0405 Remediate Liquid Waste Site - UPR-100-D-5</b>																						
CBB0405A	Excavation	10	12OCT10*	27OCT10	26,499	02JUN10	10JUN10	-73	-77	■ Excavation Process - Rem Liq Wst Site - UPR-1												
CBB0405B	Loadout - Rem	10	12OCT10*	27OCT10	7,769	02JUN10	10JUN10	-73	-77	■ Loadout - Rem Liq Wst Site - UPR-100-D-5												
CBB0405D	Closeout	190	22FEB10	01FEB11	18,629	14JUN10	24MAY11	63	63	■ Closeout Smpgl & Doc - Rem Liq Wst -UPR-												
CBB0405C	Backfill - Rem	4	21NOV11*	29NOV11	6,907	18OCT11	24OCT11	-19	-19	■ Backfill - Rem Liq Wst Site - UPR-100-D-5												
CBB0405E	Revegetation -	1	07DEC11	07DEC11	433	01NOV11	01NOV11	-19	-19	■ Revegetation - Rem Liq Wst Site - UPR-100-D-5												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt Chart Area																
<b>CBB0501 Remediate Waste Site - 100-D-2</b>																										
CBB0501A	Excavation	2	05JUN07*	06JUN07	20	31JUL06	26FEB07	-169	-57																	
CBB0501B	Loadout - Rem	2	03JUL07	05JUL07	3	28AUG06	15FEB07	-169	-77																	
CBB0501D	Closeout Smpg	161	09JUL07	24APR08	7	20FEB07	03DEC07	-77	-79																	
CBB0501C	Backfill - Rem	47	12MAR09*	03JUN09	4	09APR09	01JUL09	16	16																	
CBB0501E	Revegetation -	12	07DEC11	29DEC11	0	22NOV10	14DEC10	-207	-207																	
<b>CBB0502 Remediate Waste Site - 100-D-3</b>																										
CBB0502A	Excavation	2	09OCT07*	10OCT07	46,978	27FEB07	13MAR07	-125	-118																	
CBB0502B	Loadout - Rem	2	06NOV07	07NOV07	6,155	27MAR07	10APR07	-125	-118																	
CBB0502D	Closeout Smpg	190	08NOV07	21OCT08	16,195	11APR07	28JAN08	-118	-149																	
CBB0502C	Backfill - Rem	3	03MAR11*	08MAR11	9,862	06JUL09	08JUL09	-331	-331																	
CBB0502E	Revegetation -	1	09MAR11	09MAR11	542	15DEC10	15DEC10	-44	-44																	
<b>CBB0503 Remediate Waste Site - 100-D-42</b>																										
CBB0503A	Excavation	10	11OCT07	29OCT07	148,571	14MAR07	29MAR07	-118	-118																	
CBB0503B	Loadout - Rem	10	08NOV07	28NOV07	11,060	11APR07	26APR07	-118	-118																	
CBB0503D	Closeout Smpg	159	29NOV07	15SEP08	22,864	30APR07	13FEB08	-118	-118																	
CBB0503C	Backfill - Rem	4	16SEP08	22SEP08	17,368	09JUL09	15JUL09	162	162																	
CBB0503E	Revegetation -	1	10MAR11	10MAR11	1,407	16DEC10	16DEC10	-44	-44																	
<b>CBB0504 Remediate Waste Site - 100-D-60 (Bldg 190-DR)</b>																										
CBB0504A	Excavation	4	22JUL09	28JUL09	0	16AUG07	22AUG07	-385	-385																	
CBB0504B	Loadout - Rem	4	19AUG09	25AUG09	0	17SEP07	20SEP07	-385	-385																	
CBB0504D	Closeout Smpg	159	26AUG09	14JUN10	0	24SEP07	09JUL08	-385	-385																	
CBB0504C	Backfill - Rem	1	09MAR11	09MAR11	0	15APR10	15APR10	-178	-178																	
CBB0504E	Revegetation -	1	18AUG11	18AUG11	0	23MAR11	23MAR11	-83	-83																	
<b>CBB0505 Remediate Waste Site - 100-D-61</b>																										
CBB0505A	Excavation	3	03FEB11*	08FEB11	11,561	05APR07	16APR07	-765	-762																	
CBB0505B	Loadout - Rem	2	07MAR11	08MAR11	861	03MAY07	14MAY07	-765	-761																	
CBB0505E	Revegetation -	1	15MAR11	15MAR11	109	21DEC10	21DEC10	-44	-44																	
CBB0505D	Closeout Smpg	144	09MAR11	21NOV11	1,779	15MAY07	03MAR08	-761	-746																	
CBB0505C	Backfill - Rem	25	22NOV11	11JAN12	1,352	20JUL09	21JUL09	-470	-493																	
<b>CBB0506 Remediate Waste Site - 116-D-5</b>																										
CBB0506A	Excavation	6	23OCT08*	03NOV08	113,066	17APR07	22MAY07	-306	-291																	
CBB0506B	Loadout - Rem	11	08JUN09*	24JUN09	14,814	15MAY07	20JUN07	-412	-402																	
CBB0506D	Closeout Smpg	190	13OCT08	23SEP09	38,977	21JUN07	08APR08	-262	-293																	
CBB0506C	Backfill - Rem	8	24SEP09	07OCT09	23,737	22JUL09	04AUG09	-36	-36																	



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year													
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
<b>CBB0507 Remediate Waste Site - 116-DR-5</b>																							
CBB0507A	Excavation	5	30JUN09	08JUL09	62,984	12JUL07	02AUG07	-393	-385														
CBB0507B	Loadout - Rem	3	29JUL09*	03AUG09	8,252	09AUG07	30AUG07	-393	-383														
CBB0507D	Closeout Smpg	186	04AUG09	08JUL10	21,712	04SEP07	18JUN08	-383	-410														
CBB0507C	Backfill - Rem	5	12JUL10	19JUL10	13,223	24AUG09	31AUG09	-175	-175														
CBB0507E	Revegetation -	1	24JAN11	24JAN11	726	25JAN11	25JAN11	1	1														
<b>CBB0508 Remediate Waste Site - 118-D-6</b>																							
CBB0508A	Excavation	7	09JUL09	21JUL09	95,644	06AUG07	15AUG07	-385	-385														
CBB0508B	Loadout - Rem	7	06AUG09	18AUG09	58,449	04SEP07	13SEP07	-385	-385														
CBB0508D	Closeout Smpg	159	19AUG09	07JUN10	27,302	17SEP07	01JUL08	-385	-385														
CBB0508C	Backfill - Rem	3	13DEC10	15DEC10	201,967	28JAN10	02FEB10	-175	-175														
CBB0508E	Revegetation -	1	02MAR11	02MAR11	1,827	03MAR11	03MAR11	1	1														
<b>CBB0510 Remediate Waste Site - 116-D-10</b>																							
CBB0510A	Excavation	3	22APR08*	24APR08	34,024	23AUG07	23AUG07	-131	-133														
CBB0510B	Loadout - Rem	5	20MAY08	28MAY08	7,306	24SEP07	19FEB08	-131	-56														
CBB0510D	Closeout Smpg	40	29MAY08	07AUG08	38,446	20FEB08	02DEC08	-56	63														
CBB0510C	Backfill - Rem	40	20JUL10	28SEP10	4,448	01SEP09	10NOV09	-175	-175														
CBB0510E	Revegetation -	1	04JAN11	04JAN11	674	04JAN11	05JAN11	0	1														
<b>CBB0511 Remediate Waste Site - 130-D-1</b>																							
CBB0511A	Excavation	3	28AUG08*	03SEP08	25,635	27AUG07	29AUG07	-202	-202														
CBB0511B	Loadout - Rem	80	29SEP08	24FEB09	3,653	25SEP07	20FEB08	-202	-202														
CBB0511D	Closeout Smpg	40	25FEB09	05MAY09	19,223	21FEB08	03DEC08	-202	-83														
CBB0511C	Backfill - Rem	40	29SEP10	09DEC10	6,430	11NOV09	27JAN10	-175	-175														
CBB0511E	Revegetation -	10	05JAN11	20JAN11	505	06JAN11	24JAN11	1	1														
<b>CBB0512 Remediate Waste Site - 628-3</b>																							
CBB0512A	Excavation	39	04FEB10*	14APR10	126,175	05SEP06*	27NOV06	-682	-675														
CBB0512B	Loadout - Rem	111	08MAR10	21SEP10	80,367	03OCT06	28FEB07	-682	-713														
CBB0512D	Closeout Smpg	62	31AUG10	21DEC10	124,957	01MAR07	12DEC07	-701	-604														
CBB0512E	Revegetation -	10	25JAN11	09FEB11	9,134	26JAN11	10FEB11	1	1														
CBB0512C	Backfill - Rem	40	27DEC10	08MAR11	59,456	03FEB10	14APR10	-178	-178														
<b>CBB0513 Remediate Waste Site - 1607-D2:2</b>																							
CBB0513A	Excavation	8	08OCT08*	21OCT08	155,474	28NOV06	22MAR07	-373	-318														
CBB0513B	Loadout - Rem	11	05NOV08	24NOV08	102,285	28DEC06	21MAY07	-373	-304														
CBB0513D	Closeout Smpg	190	25NOV08	05NOV09	65,240	22MAY07	10MAR08	-304	-335														
CBB0513E	Revegetation -	10	10FEB11	01MAR11	4,360	14FEB11	02MAR11	1	1														





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
CBC0502D	Closeout Smpg	178	27JUL09	15JUN10	25,194	09AUG07	27MAY08	-391	-410	Closeout Smpg - Rem Wst Site - 116-D-8												
CBC0502C	Backfill - Rem	10	16JUN10	01JUL10	41,593	05AUG09	20AUG09	-172	-172	Backfill - Rem Wst Site - 116-D-8												
<b>CBC0504 Remediate Waste Site - 100-D-15</b>																						
CBC0504A	Excavation	139	12OCT09*	22JUN10	263,557	06AUG07	04FEB08	-437	-477	Excavation Process - Rem Wst Site - 100-D-15												
CBC0504B	Loadout - Rem	164	09NOV09	02SEP10	175,346	04SEP07	29JAN08	-437	-521	Loadout - Rem Wst Site - 100-D-15												
CBC0504D	Closeout Smpg	40	07SEP10	15NOV10	266,775	30JAN08	10NOV08	-521	-402	Closeout Smpg - Rem Wst Site - 100-D-15												
CBC0504C	Backfill - Rem	32	16NOV10	18JAN11	107,970	17NOV09*	02FEB10	-199	-191	Backfill - Rem Wst Site - 100-D-15												
CBC0504E	Revegetation -	10	27SEP11	12OCT11	16,028	28APR11	16MAY11	-83	-83	Revegetation - Rem Wst Site - 100-D-15												
<b>CBC0505 Remediate Waste Site - 116-DR-10</b>																						
CBC0505A	Excavation	16	08JUL09*	04AUG09	41,294	30AUG07	13SEP07	-369	-377	Excavation Process - Rem Wst Site - 116-DR-10												
CBC0505B	Loadout - Rem	46	05AUG09	26OCT09	25,571	01OCT07	26FEB08	-369	-335	Loadout - Rem Wst Site - 116-DR-10												
CBC0505D	Closeout Smpg	40	27OCT09	12JAN10	19,223	27FEB08	09DEC08	-335	-216	Closeout Smpg - Rem Wst Site - 116-DR-10												
CBC0505C	Backfill - Rem	40	19JAN11	30MAR11	13,513	03FEB10	14APR10	-191	-191	Backfill - Rem Wst Site - 116-DR-10												
CBC0505E	Revegetation -	10	13OCT11	31OCT11	842	17MAY11	02JUN11	-83	-83	Revegetation - Rem Wst Site - 116-DR-10												
<b>CBC0506 Remediate Waste Site - 600-30</b>																						
CBC0506A	Excavation	123	15MAR10*	19OCT10	330,493	17SEP07	13MAY08	-496	-487	Excavation Process - Rem Wst Site - 600-30												
CBC0506B	Loadout - Rem	154	12APR10	18JAN11	230,142	15OCT07	11MAR08	-496	-570	Loadout - Rem Wst Site - 600-30												
CBC0506D	Closeout Smpg	77	19JAN11	06JUN11	336,074	12MAR08	23DEC08	-570	-488	Closeout Smpg - Rem Wst Site - 600-30												
CBC0506C	Backfill - Rem	19	07JUN11	11JUL11	164,983	15APR10	24JUN10	-228	-207	Backfill - Rem Wst Site - 600-30												
CBC0506E	Revegetation -	10	01NOV11	16NOV11	23,094	06JUN11	21JUN11	-83	-83	Revegetation - Rem Wst Site - 600-30												
<b>CBC0507 Remediate Waste Site - 100-D-28:1</b>																						
CBC0507A	Excavation	5	15SEP09*	22SEP09	44,085	14MAY08	21MAY08	-267	-267	Excavation Process - Rem Wst Site - 100-D-28:1												
CBC0507B	Loadout - Rem	5	13OCT09	20OCT09	7,306	12JUN08	19JUN08	-267	-267	Loadout - Rem Wst Site - 100-D-28:1												
CBC0507D	Closeout Smpg	40	21OCT09	06JAN10	9,539	23JUN08	08APR09	-267	-148	Closeout Smpg - Rem Wst Site - 100-D-28:1												
CBC0507C	Backfill - Rem	2	12JUL11	13JUL11	39,516	28JUN10	29JUN10	-207	-207	Backfill - Rem Wst Site - 100-D-28:1												
CBC0507E	Revegetation -	1	17NOV11	17NOV11	505	22JUN11	22JUN11	-83	-83	Revegetation - Rem Wst Site - 100-D-28:1												
<b>CBC0508 Remediate Waste Site - 100-D-13</b>																						
CBC0508A	Excavation	24	22JUL09*	01SEP09	134,079	05FEB08	18MAR08	-293	-293	Excavation Process - Rem Wst Site - 100-D-13												
CBC0508B	Loadout - Rem	65	19AUG09	15DEC09	40,183	05MAR08	24JUL08	-293	-278	Loadout - Rem Wst Site - 100-D-13												
CBC0508D	Closeout Smpg	37	16DEC09	24FEB10	50,141	28JUL08	12MAY09	-278	-156	Closeout Smpg - Rem Wst Site - 100-D-13												
CBC0508C	Backfill - Rem	40	14JUL11	22SEP11	97,091	30JUN10	09SEP10	-207	-207	Backfill - Rem Wst Site - 100-D-13												
CBC0508E	Revegetation -	10	21NOV11	08DEC11	5,269	23JUN11	12JUL11	-83	-83	Revegetation - Rem Wst Site - 100-D-13												
<b>CBC0509 Remediate Waste Site - 116-DR-8</b>																						
CBC0509A	Excavation	6	02SEP09*	14SEP09	30,996	19MAR08	24MAR08	-293	-296	Excavation Process - Rem Wst Site - 116-DR-8												
CBC0509B	Loadout - Rem	9	01OCT09	15OCT09	3,653	16APR08	08SEP08	-293	-222	Loadout - Rem Wst Site - 116-DR-8												







Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
CBR2501A6	Fld. Rem.-100	184	01OCT09	01SEP10	5,824,737	01OCT09	30SEP10	0	16	Fld. Rem.-100 D Non Site Specific Support												
CBR2501A7	Fld. Rem.-100	199	02SEP10	31AUG11	1,805,366	04OCT10	29SEP11	16	16	Fld. Rem.-100 D Non Site Specific Support												
CBR2501A8	Fld. Rem.-100	199	01SEP11	29AUG12	89,889	03OCT11	29DEC11	16	-135	Fld. Rem.-100 D Non Site Specific Support												
<b>100 F AREA</b>																						
<b>DE Remedial Design</b>																						
CCD0101 Fld. Rem.-100 F Area Design																						
CCD0101A	Fld. Rem.-100	99	29AUG05A	27SEP07	208,504	02OCT06*	02APR07	218	-100	Fld. Rem.-100 F Area Design												
<b>RA Field Remediation</b>																						
CCA0305 Confirmatory Sampling Site - 100-F-31																						
CCA0305A	Work	1	01OCT05A	01OCT05A	0	02OCT06*	02OCT06	199	200	Work Instructions - CS Site - 100-F-31 (DONE)												
CCA0305B	Smplg and	1	01OCT05A	01OCT05A	0	03OCT06	03OCT06	200	201	Smplg and Analysis - CS Site - 100-F-31 (DONE)												
CCA0305C	RSVP or RTD	1	01OCT05A	01OCT05A	242	04OCT06	04OCT06	201	202	RSVP or RTD Report - CS Site - 100-F-31 (DONE)												
CCA0306 Confirmatory Sampling Site - 100-F-33																						
CCA0306A	Work	1	01OCT05A	01OCT05A	0	02OCT06	02OCT06	199	200	Work Instructions - CS Site - 100-F-33 (DONE)												
CCA0306B	Smplg and	1	01OCT05A	01OCT05A	0	05OCT06	05OCT06	202	203	Smplg and Analysis - CS Site - 100-F-33 (DONE)												
CCA0306C	RSVP or RTD	1	01OCT05A	01OCT05A	242	09OCT06	09OCT06	203	204	RSVP or RTD Report - CS Site - 100-F-33 (DONE)												
CCA0308 Confirmatory Sampling Site - 100-F-36																						
CCA0308A	Work	1	01OCT05A	01OCT05A	0	02OCT06	02OCT06	199	200	Work Instructions - CS Site - 100-F-36 (DONE)												
CCA0308B	Smplg and	1	01OCT05A	01OCT05A	0	10OCT06	10OCT06	204	205	Smplg and Analysis - CS Site - 100-F-36 (DONE)												
CCA0308C	RSVP or RTD	1	01OCT05A	01OCT05A	242	11OCT06	11OCT06	205	206	RSVP or RTD Report - CS Site - 100-F-36 (DONE)												
CCA0314 Confirmatory Sampling Site - 126-F-2																						
CCA0314A	Work	1	01OCT05A	01OCT05A	0	02OCT06	02OCT06	199	200	Work Instructions - CS Site - 126-F-2 (DONE)												
CCA0314B	Smplg and	1	01OCT05A	01OCT05A	0	12OCT06	12OCT06	206	207	Smplg and Analysis - CS Site - 126-F-2 (DONE)												
CCA0314C	RSVP or RTD	1	01OCT05A	01OCT05A	242	16OCT06	16OCT06	207	208	RSVP or RTD Report - CS Site - 126-F-2 (DONE)												
CCA0315 Confirmatory Sampling Site - 128-F-2																						
CCA0315A	Work	1	01OCT05A	01OCT05A	0	02OCT06	02OCT06	199	200	Work Instructions - CS Site - 128-F-2 (DONE)												
CCA0315B	Smplg and	1	01OCT05A	01OCT05A	0	17OCT06	17OCT06	208	209	Smplg and Analysis - CS Site - 128-F-2 (DONE)												
CCA0315C	RSVP or RTD	1	01OCT05A	01OCT05A	242	18OCT06	18OCT06	209	210	RSVP or RTD Report - CS Site - 128-F-2 (DONE)												
CCA0316 Confirmatory Sampling Site - 132-F-1																						
CCA0316A	Work	1	01OCT05A	01OCT05A	0	02OCT06*	02OCT06	199	200	Work Instructions - CS Site - 132-F-1 (DONE)												
CCA0316B	Smplg and	1	01OCT05A	01OCT05A	0	19OCT06	19OCT06	210	211	Smplg and Analysis - CS Site - 132-F-1 (DONE)												
CCA0316C	RSVP or RTD	1	01OCT05A	01OCT05A	242	23OCT06	23OCT06	211	212	RSVP or RTD Report - CS Site - 132-F-1 (DONE)												
CCA0317 Confirmatory Sampling Site - 141-C																						
CCA0317A	Work	1	01OCT05A	01OCT05A	0	02OCT06	02OCT06	199	200	Work Instructions - CS Site - 141-C (DONE)												
CCA0317B	Smplg and	1	01OCT05A	01OCT05A	0	24OCT06	24OCT06	212	213	Smplg and Analysis - CS Site - 141-C (DONE)												
CCA0317C	RSVP or RTD	1	01OCT05A	01OCT05A	242	25OCT06	25OCT06	213	214	RSVP or RTD Report - CS Site - 141-C (DONE)												







Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
CCA0342C	RSVP or RTD	84	22JUL08	18DEC08	12,012	09APR07	05SEP07	-258	-258	■ RSVP or RTD Report - CS Site - 100-F-57												
CCB0401 Remediate Liquid Waste Site - 100-F-26																						
CCB0401A	Excavation	76	30OCT06A	09MAY07	1,632,461	09AUG10*	02AUG11	753	845	■ Excavation Process - Rem Liq Wst Site - 100-F-26												
CCB0401B	Loadout - Rem	82	10MAY07	04OCT07	200,917	09AUG10	02AUG11	648	763	■ Loadout - Rem Liq Wst Site - 100-F-26												
CCB0401D	Closeout	54	08OCT07*	16JAN08	452,098	03AUG11	16JUL12	763	899	■ Closeout Sampling & Documentation - Rem Liq Wst												
CCB0401C	Backfill - Rem	8	17JAN08	30JAN08	1,077,187	17JUL12	26MAR13	899	1,029	■ Backfill - Rem Liq Wst Site - 100-F-26												
CCB0401E	Revegetation -	8	24MAR08*	03APR08	52,547	27MAR13	30APR13	1,001	1,013	■ Revegetation - Rem Liq Wst Site - 100-F-26												
CCB0502 Remediate Waste Site - 100-F-38																						
CCB0502A	Excavation	5	15SEP05A	15SEP05A	456	29AUG05	06SEP05	-10	-6	■ Excavation Process - Rem Wst Site - 100-F-38												
CCB0502B	Loadout - Rem	5	15SEP05A	15SEP05A	32	27SEP05	04OCT05	6	10	■ Loadout - Rem Wst Site - 100-F-38												
CCB0502D	Closeout Smpg	159	28NOV05A	15MAR06A	101	05OCT05	24JUL06	-28	72	■ Closeout Smpg - Rem Wst Site - 100-F-38												
CCB0502C	Backfill - Rem	1	19OCT06A	19OCT06A	72	01OCT07*	02OCT07	188	189	■ Backfill - Rem Wst Site - 100-F-38												
CCB0502E	Revegetation -	1	15DEC08*	15DEC08	4	31JAN07	31JAN07	-375	-375	■ Revegetation - Rem Wst Site - 100-F-38												
CCB0503 Remediate Waste Site - 116-F-16																						
CCB0503A	Excavation	26	31AUG05A	08NOV05A	129,549	29AUG05	12OCT05	-2	-15	■ Excavation Process - Rem Wst Site - 116-F-16												
CCB0503B	Loadout - Rem	26	03NOV05A	08NOV05A	9,117	27SEP05	09NOV05	-22	1	■ Loadout - Rem Wst Site - 116-F-16												
CCB0503D	Closeout Smpg	159	27DEC05A	19SEP06A	28,783	10NOV05	29AUG06	-22	-11	■ Closeout Smpg - Rem Wst Site - 116-F-16												
CCB0503C	Backfill - Rem	1	21JUN07*	21JUN07	20,562	28FEB08	13MAR08	136	144	■ Backfill - Rem Wst Site - 116-F-16												
CCB0503E	Revegetation -	1	29DEC08	29DEC08	1,032	12MAR07	13MAR07	-360	-359	■ Revegetation - Rem Wst Site - 116-F-16												
CCB0504 Remediate Waste Site - 116-F-8 (inc WS 100-F-39)																						
CCB0504A	Excavation	29	01SEP05A	28NOV05A	129,549	29AUG05	18OCT05	-3	-21	■ Excavation Process - Rem Wst Site - 116-F-8 (inc												
CCB0504B	Loadout - Rem	29	07NOV05A	28NOV05A	9,117	27SEP05	15NOV05	-23	-5	■ Loadout - Rem Wst Site - 116-F-8 (includes Waste												
CCB0504D	Closeout Smpg	159	09JAN06A	26SEP06A	45,080	16NOV05	05SEP06	-25	-12	■ Closeout Smpg - Rem Wst Site - 116-F-8 (include												
CCB0504C	Backfill - Rem	4	25JUN08*	01JUL08	20,562	17MAR08	02APR08	-57	-50	■ Backfill - Rem Wst Site - 116-F-8 (includes Wast												
CCB0504E	Revegetation -	2	30DEC08	31DEC08	1,032	14MAR07	15MAR07	-359	-359	■ Revegetation - Rem Wst Site - 116-F-8 (includes												
CCB0505 Remediate Waste Site - 118-F-8																						
CCB0505A	Excavation	30	14MAR07A	04APR07	72,389	01OCT07*	20NOV07	111	128	■ Excavation Process - Rem Wst Site - 118-F-8												
CCB0505B	Loadout - Rem	7	22MAR07A	05APR07	36,530	29OCT07	07NOV07	122	120	■ Loadout - Rem Wst Site - 118-F-8												
CCB0505D	Closeout Smpg	159	09APR07	24SEP07	21,682	08NOV07	26AUG08	120	185	■ Closeout Smpg - Rem Wst Site - 118-F-8												
CCB0505C	Backfill - Rem	1	25SEP08*	25SEP08	125,513	27AUG08	02SEP08	-16	-14	■ Backfill - Rem Wst Site - 118-F-8												
CCB0505E	Revegetation -	1	15DEC08	15DEC08	1,017	03SEP08	03SEP08	-56	-56	■ Revegetation - Rem Wst Site - 118-F-8												
CCB0506 Remediate Waste Site - 126-F-1																						
CCB0506A	Excavation	49	26MAR07*	19JUN07	0	02OCT06*	02JAN07	-94	-94	■ Excavation Process - Rem Wst Site - 126-F-1												
CCB0506B	Loadout - Rem	49	23APR07	18JUL07	0	30OCT06	30JAN07	-94	-94	■ Loadout - Rem Wst Site - 126-F-1												
CCB0506D	Closeout Smpg	159	19JUL07	05MAY08	0	31JAN07	12NOV07	-94	-94	■ Closeout Smpg - Rem Wst Site - 126-F-1												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year													
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
<b>CCB0513 Remediate Waste Site - 132-F-1</b>																							
CCB0513B	Loadout - Rem	49	06SEP05A	06SEP05A	2,192	29AUG05	22NOV05	-4	44														
CCB0513D	Closeout Smpg	159	12OCT05A	24AUG06A	24,843	28NOV05	12SEP06	24	9														
CCB0513C	Backfill - Rem	2	26MAR08*	27MAR08	15,915	13SEP06	25OCT06	-305	-282														
CCB0513E	Revegetation -	1	09DEC08	09DEC08	1,775	06MAY08	14MAY08	-119	-114														
<b>CCB0514 Remediate Waste Site - 141-C</b>																							
CCB0514B	Loadout - Rem	49	22SEP05A	26SEP05A	10,959	29AUG05	22NOV05	-14	33														
CCB0514D	Closeout Smpg	159	19OCT05A	24MAY06A	19,223	28NOV05	12SEP06	20	60														
CCB0514C	Backfill - Rem	1	31MAR08*	31MAR08	6,960	26OCT06	12DEC06	-282	-258														
CCB0514E	Revegetation -	1	10DEC08	10DEC08	1,172	15MAY08	27MAY08	-114	-109														
<b>CCB0515 Remediate Waste Site - 1607-F3</b>																							
CCB0515A	Excavation	49	27SEP05A	15NOV05A	52,727	29AUG05	22NOV05	-16	4														
CCB0515B	Loadout - Rem	49	10NOV05A	12DEC06A	21,918	27SEP05	27DEC05	-26	-193														
CCB0515D	Closeout Smpg	159	17NOV05A	23MAY07	38,446	28DEC05	10OCT06	19	-123														
CCB0515C	Backfill - Rem	1	20AUG07	20AUG07	14,020	20NOV07	09JAN08	52	76														
CCB0515E	Revegetation -	1	22DEC08	22DEC08	1,629	15FEB07	27FEB07	-370	-365														
<b>CCB0516 Remediate Waste Site - 1607-F4</b>																							
CCB0516A	Excavation	1	26MAR07	26MAR07	15,942	02OCT06	02JAN07	-94	-46														
CCB0516B	Loadout - Rem	1	23APR07	23APR07	3,653	30OCT06	30JAN07	-94	-46														
CCB0516D	Closeout Smpg	106	24APR07	30OCT07	19,223	31JAN07	12NOV07	-46	7														
CCB0516C	Backfill - Rem	1	15JUL08	15JUL08	1,704	31MAR08	12MAY08	-59	-35														
CCB0516E	Revegetation -	1	09DEC08	09DEC08	260	06MAY08	14MAY08	-119	-114														
<b>CCB0517 Remediate Waste Site - 1607-F5</b>																							
CCB0517A	Excavation	49	29AUG05A	10NOV05A	38,316	29AUG05	22NOV05	0	6														
CCB0517B	Loadout - Rem	49	08NOV05A	10NOV05A	18,265	27SEP05	27DEC05	-24	22														
CCB0517D	Closeout Smpg	159	01DEC05A	19SEP06A	19,223	28DEC05	10OCT06	13	12														
CCB0517C	Backfill - Rem	1	21AUG08*	21AUG08	6,923	10JAN08	25FEB08	-125	-101														
CCB0517E	Revegetation -	1	23DEC08	23DEC08	750	28FEB07	08MAR07	-365	-360														
<b>CCB0518 Remediate Waste Site - 1607-F7</b>																							
CCB0518B	Loadout - Rem	49	22SEP05A	22SEP05A	3,653	27SEP05	27DEC05	2	50														
CCB0518A	Excavation	49	27SEP05A	27SEP05A	24,443	29AUG05	22NOV05	-16	32														
CCB0518D	Closeout Smpg	159	17OCT05A	30OCT06A	19,223	28DEC05	10OCT06	38	-11														
CCB0518C	Backfill - Rem	1	18AUG08*	18AUG08	1,822	13DEC06	30JAN07	-335	-311														
CCB0518E	Revegetation -	1	11DEC08	11DEC08	352	28MAY08	05JUN08	-109	-104														

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
<b>CCB0519 Remediate Waste Site - 182-F</b>																						
CCB0519C	Backfill - Rem	25	08FEB06A	27MAR06A	429,635	31JAN07	15MAR07	195	194	■ Backfill - Rem Wst Site - 182-F												
CCB0519E	Revegetation -	2	15DEC08	16DEC08	3,240	31JAN07	08FEB07	-375	-371	■ Revegetation - Rem Wst Site - 182-F												
<b>CCC0501 Remediate Waste Site - 120-F-1</b>																						
CCC0501A	Excavation	5	19JAN06A	09APR07	18,249	29AUG05	06SEP05	-77	-316	■ Excavation Process - Rem Wst Site - 120-F-1												
CCC0501B	Loadout - Rem	2	10APR07	11APR07	972	27SEP05	04OCT05	-305	-302	■ Loadout - Rem Wst Site - 120-F-1												
CCC0501D	Closeout Smpg	118	12APR07	08NOV07	3,564	05OCT05	24JUL06	-302	-261	■ Closeout Smpg - Rem Wst Site - 120-F-1												
CCC0501C	Backfill - Rem	3	12NOV07	14NOV07	880	03OCT07	04OCT07	-22	-23	■ Backfill - Rem Wst Site - 120-F-1												
CCC0501E	Revegetation -	1	16DEC08	16DEC08	192	01FEB07	01FEB07	-375	-375	■ Revegetation - Rem Wst Site - 120-F-1												
<b>CCC0502 Remediate Waste Site - 128-F-3</b>																						
CCC0502A	Excavation	6	20SEP05A	17NOV05A	107,950	29AUG05	07SEP05	-12	-41	■ Excavation Process - Rem Wst Site - 128-F-3												
CCC0502B	Loadout - Rem	6	15NOV05A	17NOV05A	5,750	27SEP05	05OCT05	-28	-25	■ Loadout - Rem Wst Site - 128-F-3												
CCC0502D	Closeout Smpg	159	28NOV05A	30OCT06A	21,080	06OCT05	25JUL06	-27	-54	■ Closeout Smpg - Rem Wst Site - 128-F-3												
CCC0502C	Backfill - Rem	1	16JUN08*	16JUN08	5,203	26FEB08	27FEB08	-62	-61	■ Backfill - Rem Wst Site - 128-F-3												
CCC0502E	Revegetation -	1	17DEC08	17DEC08	1,135	05FEB07	05FEB07	-375	-375	■ Revegetation - Rem Wst Site - 128-F-3												
<b>CCC0503 Remediate Waste Site - 1607-F1</b>																						
CCC0503A	Excavation	1	26MAR07	26MAR07	26,780	02OCT06	28DEC06	-94	-47	■ Excavation Process - Rem Wst Site - 1607-F1												
CCC0503B	Loadout - Rem	1	01APR08*	01APR08	3,653	30OCT06	29JAN07	-282	-235	■ Loadout - Rem Wst Site - 1607-F1												
CCC0503E	Revegetation -	1	02JUL08	02JUL08	505	03APR08	14APR08	-50	-45	■ Revegetation - Rem Wst Site - 1607-F1												
CCC0503D	Closeout Smpg	105	02APR08	07OCT08	19,223	30JAN07	08NOV07	-235	-181	■ Closeout Smpg - Rem Wst Site - 1607-F1												
CCC0503C	Backfill - Rem	1	08OCT08	08OCT08	2,595	12NOV07*	27DEC07	-181	-158	■ Backfill - Rem Wst Site - 1607-F1												
<b>CCC0601 Remediate Burial Ground - 100-F-20</b>																						
CCC0601A	Excavation -	39	05DEC05A	25MAY06A	136,365	01AUG06	09OCT06	131	74	■ Excavation - Rem BG - 100-F-20												
CCC0601B	Loadout - Rem	39	10APR06A	24AUG06A	75,493	29AUG06	06NOV06	79	40	■ Loadout - Rem BG - 100-F-20												
CCC0601D	Closeout Smpg	69	15MAY06A	29JAN07A	3,353	07NOV06	23AUG07	98	116	■ Closeout Smpg - Rem BG - 100-F-20												
CCC0601C	Backfill - Rem	3	21AUG07	23AUG07	75,543	10OCT07	01NOV07	28	39	■ Backfill - Rem BG - 100-F-20												
CCC0601E	Revegetation -	1	27AUG08*	27AUG08	936	15JUL08	17JUL08	-25	-23	■ Revegetation - Rem BG - 100-F-20												
<b>CCC0602 Remediate Burial Ground - 118-F-1</b>																						
CCC0602A	Excavation -	176	03JAN06A	07MAY07	3,571,130	01JUN06*	18APR07	84	-10	■ Excavation - Rem BG - 118-F-1												
CCC0602B	Loadout - Rem	56	28AUG06A	28JUN07	1,625,724	29JUN06	16MAY07	-32	-24	■ Loadout - Rem BG - 118-F-1												
CCC0602M	Complete	0		28JUN07	0		16MAY07	-24	-24	◆ Complete 118-F-1 Loadout												
CCC0602D	Closeout Smpg	118	02JUL07	04FEB08	71,574	17MAY07	05MAR08	-24	17	■ Closeout Smpg - Rem BG - 118-F-1												
CCC0602C	Backfill - Rem	10	05FEB08	21FEB08	1,614,509	06MAR08	25JUN08	17	70	■ Backfill - Rem BG - 118-F-1												
CCC0602E	Revegetation -	4	25FEB08	28FEB08	19,995	26JUN08	21JUL08	70	79	■ Revegetation - Rem BG - 118-F-1												





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt Chart Area																
CCC0608E	Revegetation -	1	04MAR08	04MAR08	160	23JUL08	23JUL08	79	79	Revegetation - Rem BG - 118-F-9																
CCR2501 Fld. Rem.-100 F Non Site Specific Support											<ul style="list-style-type: none"> <li>Fld. Rem.-100 F Non Site Specific Support</li> <li>Fld. Rem.-100 F Non Site Specific Support</li> <li>Fld. Rem.-100 F Non Site Specific Support</li> <li>Fld. Rem.-100 F Non Site Specific Support</li> </ul>															
CCR2501A5	Fld. Rem.-100	51	01OCT07*	03JAN08	110,955	01JUL10*	30SEP10	550	550																	
CCR2501A6	Fld. Rem.-100	199	01OCT07	25SEP08	625,442	04OCT10	29SEP11	601	601																	
CCR2501A7	Fld. Rem.-100	199	01OCT07	25SEP08	269,855	03OCT11	27SEP12	800	800																	
CCR2501A8	Fld. Rem.-100	116	29SEP08	28APR09	308,981	01OCT12	30APR13	800	800																	
<b>100 H AREA</b>																										
<b>DE Remedial Design</b>																										
CDD0101 Fld. Rem.-100 H Area Design											<ul style="list-style-type: none"> <li>Fld. Rem.-100 H Area Design</li> </ul>															
CDD0101A	Fld. Rem.-100	130	26JAN06A	27SEP07	211,020	01FEB06*	28SEP06	3	-199																	
<b>DD D4</b>																										
AAD0702 D4 Building - MO-229											<ul style="list-style-type: none"> <li>Plan &amp; Document - MO-229</li> <li>Deact &amp; Decom - MO-229</li> <li>Demolition Above Grade - MO-229</li> <li>Demolition Below Grade - MO-229</li> <li>Loadout - MO-229</li> <li>Transition/Final Closure - MO-229</li> </ul>															
AAD0702A	Plan &	8	12OCT10*	25OCT10	8,030	13JAN11	26JAN11	49	49																	
AAD0702B	Deact & Decom	12	18OCT10	04NOV10	0	19JAN11	08FEB11	49	49																	
AAD0702C	Demolition	3	08NOV10	10NOV10	25,765	09FEB11	14FEB11	49	49																	
AAD0702D	Demolition	5	11NOV10	18NOV10	0	15FEB11	23FEB11	49	49																	
AAD0702E	Loadout -	6	16NOV10	29NOV10	0	17FEB11	01MAR11	49	49																	
AAD0702F	Transition/Final	5	30NOV10	07DEC10	576	03MAR11	10MAR11	50	50																	
AAD1001 D4 Retention Basin - 183H WstClearwell(100-H-34)											<ul style="list-style-type: none"> <li>Deact &amp; Decom - 183H West Clearwell (incl Wast</li> <li>Demolition Above Grade - 183H West Clearwell</li> <li>Demolition Below Grade - 183H West Clearwell</li> <li>Loadout - 183H West Clearwell (includes Wast</li> <li>Transition/Final Closure - 183H West Clearwell</li> </ul>															
AAD1001B	Deact & Decom	8	16AUG10	26AUG10	0	16AUG10	11OCT10	0	24																	
AAD1001C	Demolition	8	07SEP10	20SEP10	13,808	12OCT10	12JAN11	20	61																	
AAD1001D	Demolition	17	21SEP10	19OCT10	222,773	13JAN11	02FEB11	61	56																	
AAD1001E	Loadout - 183H	23	23SEP10	02NOV10	206,018	20JAN11	16FEB11	63	56																	
AAD1001F	Transition/Final	16	03NOV10	02DEC10	117,567	17FEB11	10MAR11	56	52																	
<b>RA Field Remediation</b>																										
CDA0301 Confirmatory Sampling Site - 100-H-28											<ul style="list-style-type: none"> <li>Work Instructions - CS Site - 100-H-28 (Costs in</li> <li>Smpg and Analysis - CS Site - 100-H-28 (Costs i</li> <li>RSVP or RTD Report - CS Site - 100-H-28 (Costs i</li> </ul>															
CDA0301A	Work	70	25JAN06A	25APR07	75	05DEC05*	11APR06	-27	-208																	
CDA0301B	Smpg and	34	02APR08*	02JUN08	0	01OCT07*	20NOV07	-100	-104																	
CDA0301C	RSVP or RTD	102	05MAY08	03NOV08	0	31OCT07	29OCT08	-100	-2																	
CDA0302 Confirmatory Sampling Site - 100-H-10											<ul style="list-style-type: none"> <li>Work Instructions - CS Site - 100-H-10</li> <li>Smpg and Analysis - CS Site - 100-H-10</li> <li>RSVP or RTD Report - CS Site - 100-H-10</li> </ul>															
CDA0302A	Work	50	05DEC05A	16FEB06A	12,408	19DEC05	21MAR06	8	17																	
CDA0302B	Smpg and	25	21MAR06A	23MAR06A	17,268	03OCT07	14NOV07	309	331																	
CDA0302C	RSVP or RTD	84	21MAR06A	22JUN06A	10,137	05NOV07	08APR08	327	357																	
CDA0303 Confirmatory Sampling Site - 100-H-3											<ul style="list-style-type: none"> <li>Work Instructions - CS Site - 100-H-3</li> <li>Smpg and Analysis - CS Site - 100-H-3</li> </ul>															
CDA0303A	Work	50	19DEC05A	14MAR06A	12,333	05JAN06	04APR06	8	12																	
CDA0303B	Smpg and	25	23APR08*	05JUN08	17,268	08OCT07	19NOV07	-108	-108																	





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt chart area with colored bars representing activity durations across fiscal years.												
CDA0312C	RSVP or RTD	75	12MAY09*	23SEP09	10,137	12DEC07	13MAY08	-282	-273	■ RSVP or RTD Report - CS Site - 128-H-3												
CDA0313 Confirmatory Sampling Site - 132-H-1																						
CDA0313A	Work	50	24APR06A	24APR06A	12,333	05DEC05*	07MAR06	-76	-27	■ Work Instructions - CS Site - 132-H-1												
CDA0313B	Smpg and	25	24APR06A	24APR06A	40,121	12NOV07	31DEC07	312	336	■ Smpg and Analysis - CS Site - 132-H-1												
CDA0313C	RSVP or RTD	64	30MAY06A	26APR07	10,137	17DEC07	15MAY08	310	211	■ RSVP or RTD Report - CS Site - 132-H-1												
CDA0314 Confirmatory Sampling Site - 132-H-2																						
CDA0314A	Work	50	24APR06A	24APR06A	12,333	19DEC05	21MAR06	-68	-19	■ Work Instructions - CS Site - 132-H-2												
CDA0314B	Smpg and	25	24APR06A	24APR06A	40,121	14NOV07	03JAN08	314	338	■ Smpg and Analysis - CS Site - 132-H-2												
CDA0314C	RSVP or RTD	64	30MAY06A	24AUG06A	10,137	19DEC07	20MAY08	312	346	■ RSVP or RTD Report - CS Site - 132-H-2												
CDA0315 Confirmatory Sampling Site - 132-H-3																						
CDA0315A	Work	50	24APR06A	24APR06A	12,333	05JAN06	04APR06	-60	-11	■ Work Instructions - CS Site - 132-H-3												
CDA0315B	Smpg and	25	24APR06A	24APR06A	40,121	19NOV07	08JAN08	316	340	■ Smpg and Analysis - CS Site - 132-H-3												
CDA0315C	RSVP or RTD	64	30MAY06A	26APR07	10,137	26DEC07	22MAY08	314	215	■ RSVP or RTD Report - CS Site - 132-H-3												
CDA0316 Confirmatory Sampling Site - 1607-H1																						
CDA0316A	Work	50	27DEC05A	23JAN07A	12,333	19JAN06	18APR06	13	-152	■ Work Instructions - CS Site - 1607-H1												
CDA0316B	Smpg and	25	23JAN07A	23JAN07A	29,530	26NOV07	10JAN08	169	193	■ Smpg and Analysis - CS Site - 1607-H1												
CDA0316C	RSVP or RTD	93	23JAN07A	23JAN07A	10,137	31DEC07	28MAY08	187	270	■ RSVP or RTD Report - CS Site - 1607-H1												
CDA0317 Confirmatory Sampling Site - 1607-H3																						
CDA0317A	Work	50	19DEC05A	23JAN07A	12,333	02FEB06	02MAY06	24	-144	■ Work Instructions - CS Site - 1607-H3												
CDA0317B	Smpg and	25	23JAN07A	23JAN07A	29,530	28NOV07	15JAN08	171	195	■ Smpg and Analysis - CS Site - 1607-H3												
CDA0317C	RSVP or RTD	93	23JAN07A	23JAN07A	10,137	03JAN08	02JUN08	189	272	■ RSVP or RTD Report - CS Site - 1607-H3												
CDA0318 Confirmatory Sampling Site - 600-151																						
CDA0318A	Work	50	27DEC05A	16FEB06A	12,333	16FEB06	16MAY06	29	49	■ Work Instructions - CS Site - 600-151												
CDA0318B	Smpg and	25	21MAR06A	23MAR06A	40,121	03DEC07	17JAN08	341	363	■ Smpg and Analysis - CS Site - 600-151												
CDA0318C	RSVP or RTD	84	21MAR06A	23MAR06A	10,137	08JAN08	04JUN08	359	440	■ RSVP or RTD Report - CS Site - 600-151												
CDB0401 Remediate Liquid Waste Site - 100-H-11																						
CDB0401A	Excavation	5	03JUL06A	25JAN07A	0	31JUL07	07AUG07	215	107	■ Excavation Process - Rem Liq Wst Site - 100-H-11												
CDB0401B	Loadout - Rem	5	06JUL06A	25JAN07A	0	31JUL07	07AUG07	213	107	■ Loadout - Rem Liq Wst Site - 100-H-11												
CDB0401C	Backfill - Rem	4	11JUL06A	25JAN07A	0	25JUN08	01JUL08	392	287	■ Backfill - Rem Liq Wst Site - 100-H-11												
CDB0401D	Closeout	159	13JUL06A	25JAN07A	0	08AUG07	22MAY08	214	266	■ Closeout Sampling & Documentation - Rem Liq Wst												
CDB0401E	Revegetation -	1	18JUL06A	25JAN07A	0	28JUL08	28JUL08	405	301	■ Revegetation - Rem Liq Wst Site - 100-H-11												
CDB0402 Remediate Liquid Waste Site - 100-H-12																						
CDB0402A	Excavation	5	03JUL06A	25JAN07A	0	08AUG07	15AUG07	220	112	■ Excavation Process - Rem Liq Wst Site - 100-H-12												
CDB0402B	Loadout - Rem	5	06JUL06A	25JAN07A	0	08AUG07	15AUG07	218	112	■ Loadout - Rem Liq Wst Site - 100-H-12												
CDB0402C	Backfill - Rem	4	11JUL06A	25JAN07A	0	02JUL08	09JUL08	396	291	■ Backfill - Rem Liq Wst Site - 100-H-12												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt chart area with activity bars and site names																
CDB0402D	Closeout	159	13JUL06A	25JAN07A	0	16AUG07	03JUN08	219	271	Closeout Sampling & Documentation - Rem Liq Wst																
CDB0402E	Revegetation -	1	18JUL06A	25JAN07A	0	29JUL08	29JUL08	406	302	Revegetation - Rem Liq Wst Site - 100-H-12																
CDB0403 Remediate Liquid Waste Site - 100-H-13																										
CDB0403A	Excavation	5	03JUL06A	25JAN07A	0	16AUG07	23AUG07	225	117	Excavation Process - Rem Liq Wst Site - 100-H-13																
CDB0403B	Loadout - Rem	5	06JUL06A	25JAN07A	0	16AUG07	23AUG07	223	117	Loadout - Rem Liq Wst Site - 100-H-13																
CDB0403C	Backfill - Rem	4	11JUL06A	25JAN07A	0	10JUL08	16JUL08	400	295	Backfill - Rem Liq Wst Site - 100-H-13																
CDB0403D	Closeout	159	13JUL06A	25JAN07A	0	27AUG07	11JUN08	224	276	Closeout Sampling & Documentation - Rem Liq Wst																
CDB0403E	Revegetation -	1	18JUL06A	25JAN07A	0	30JUL08	30JUL08	407	303	Revegetation - Rem Liq Wst Site - 100-H-13																
CDB0404 Remediate Liquid Waste Site - 116-H-9																										
CDB0404A	Excavation	2	01OCT08*	02OCT08	42,016	27AUG07	06SEP07	-220	-215	Excavation Process - Rem Liq Wst Site - 116-H-9																
CDB0404B	Loadout - Rem	2	01OCT08	02OCT08	7,306	27AUG07	06SEP07	-220	-215	Loadout - Rem Liq Wst Site - 116-H-9																
CDB0404D	Closeout	243	06OCT08	22DEC09	19,223	10SEP07	24JUN08	-215	-299	Closeout Sampling & Documentation - Rem Liq Wst																
CDB0404C	Backfill - Rem	1	28DEC09	28DEC09	9,370	17JUL08	24JUL08	-287	-283	Backfill - Rem Liq Wst Site - 116-H-9																
CDB0404E	Revegetation -	49	29DEC09	25MAR10	628	31JUL08	31JUL08	-280	-328	Revegetation - Rem Liq Wst Site - 116-H-9																
CDB0501 Remediate Waste Site - 100-H-14																										
CDB0501A	Excavation	1	03JUL06A	25JAN07A	29,180	24JUL08	24JUL08	412	300	Excavation Process - Rem Wst Site - 100-H-14																
CDB0501B	Loadout - Rem	1	06JUL06A	25JAN07A	14,612	21AUG08	21AUG08	426	316	Loadout - Rem Wst Site - 100-H-14																
CDB0501C	Backfill - Rem	1	11JUL06A	25JAN07A	6,220	02DEC09	02DEC09	679	571	Backfill - Rem Wst Site - 100-H-14																
CDB0501D	Closeout Smpg	159	13JUL06A	25JAN07A	19,223	25AUG08	10JUN09	423	475	Closeout Smpg - Rem Wst Site - 100-H-14																
CDB0501E	Revegetation -	1	18JUL06A	25JAN07A	444	25JAN10	25JAN10	702	598	Revegetation - Rem Wst Site - 100-H-14																
CDB0502 Remediate Waste Site - 100-H-31																										
CDB0502A	Excavation	5	03JUL06A	25JAN07A	19,903	28JUL08	04AUG08	413	305	Excavation Process - Rem Wst Site - 100-H-31																
CDB0502B	Loadout - Rem	5	06JUL06A	25JAN07A	3,653	25AUG08	02SEP08	427	321	Loadout - Rem Wst Site - 100-H-31																
CDB0502C	Backfill - Rem	2	11JUL06A	25JAN07A	3,003	03DEC09	07DEC09	680	573	Backfill - Rem Wst Site - 100-H-31																
CDB0502D	Closeout Smpg	159	13JUL06A	25JAN07A	19,223	03SEP08	18JUN09	428	480	Closeout Smpg - Rem Wst Site - 100-H-31																
CDB0502E	Revegetation -	1	18JUL06A	25JAN07A	505	26JAN10	26JAN10	703	599	Revegetation - Rem Wst Site - 100-H-31																
CDB0503 Remediate Waste Site - 116-H-5																										
CDB0503A	Excavation	19	07OCT08*	06NOV08	110,980	05AUG08	04SEP08	-35	-36	Excavation Process - Rem Wst Site - 116-H-5																
CDB0503B	Loadout - Rem	41	04NOV08	21JAN09	10,396	03SEP08	02OCT08	-35	-58	Loadout - Rem Wst Site - 116-H-5																
CDB0503D	Closeout Smpg	238	22JAN09	31MAR10	36,471	06OCT08	22JUL09	-58	-137	Closeout Smpg - Rem Wst Site - 116-H-5																
CDB0503C	Backfill - Rem	8	01APR10	14APR10	20,827	08DEC09	17DEC09	-62	-63	Backfill - Rem Wst Site - 116-H-5																
CDB0503E	Revegetation -	49	15APR10	13JUL10	1,191	27JAN10	27JAN10	-44	-92	Revegetation - Rem Wst Site - 116-H-5																
CDB0504 Remediate Waste Site - 118-H-6																										
CDB0504A	Excavation	1	10NOV08	10NOV08	0	08SEP08	08SEP08	-36	-36	Excavation Process - Rem Wst Site - 118-H-6																
CDB0504B	Loadout - Rem	1	10DEC08	10DEC08	0	06OCT08	06OCT08	-36	-36	Loadout - Rem Wst Site - 118-H-6																

July 2007

300 Area Building Retention Evaluation Mitigation Plan

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Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16															
										Gantt Chart Area															
CDB0504D	Closeout Smpg	243	11DEC08	03MAR10	0	07OCT08	23JUL09	-36	-120	Closeout Smpg - Rem Wst Site - 118-H-6															
CDB0504C	Backfill - Rem	1	05APR11	05APR11	0	01DEC09	01DEC09	-267	-267	Backfill - Rem Wst Site - 118-H-6															
CDB0504E	Revegetation -	49	30JUN11	27SEP11	0	21JAN10	21JAN10	-289	-337	Revegetation - Rem Wst Site - 118-H-6															
<b>CDB0505 Remediate Waste Site - 100H Mud Dauber</b>																									
CDB0505B	Loadout - Rem	1	29OCT08	29OCT08	255,713	01NOV10	10MAR11	400	469	Loadout - Rem Wst Site - 100H Mud Dauber															
CDB0505A	Excavation	23	01OCT08*	10NOV08	353,003	04OCT10*	09FEB11	400	447	Excavation Process - Rem Wst Site-100H Mud Dauber															
CDB0505D	Closeout Smpg	237	30OCT08	12JAN10	748,472	14MAR11	22DEC11	469	391	Closeout Smpg - Rem Wst Site - 100H Mud Dauber															
CDB0505C	Backfill - Rem	1	13JAN10	13JAN10	183,176	28DEC11	23JAN12	391	404	Backfill - Rem Wst Site - 100H Mud Dauber															
CDB0505E	Revegetation -	55	14JAN10	21APR10	43,086	24JAN12	30JAN12	404	353	Revegetation - Rem Wst Site - 100H Mud Dauber															
<b>CDC0501 Remediate Waste Site - 100-H-34 (Bldg 183-H)</b>																									
CDC0501A	Excavation	175	06OCT08	19AUG09	0	10SEP07*	23JUL08	-215	-215	Excavation Process - Rem Wst Site - 100-H-34 (D4															
CDC0501B	Loadout - Rem	175	03NOV08	17SEP09	0	08OCT07	20AUG08	-215	-215	Loadout - Rem Wst Site - 100-H-34 (D4 183-H)															
CDC0501D	Closeout Smpg	243	21SEP09	07DEC10	0	21AUG08	09JUN09	-215	-299	Closeout Smpg - Rem Wst Site - 100-H-34 (D4															
CDC0501C	Backfill - Rem	63	08DEC10	04APR11	0	06AUG09	30NOV09	-267	-267	Backfill - Rem Wst Site - 100-H-34 (D4 183-H)															
CDC0501E	Revegetation -	49	05APR11	29JUN11	0	29DEC09	20JAN10	-253	-289	Revegetation - Rem Wst Site - 100-H-34 (D4 183-H)															
<b>CDC0502 Remediate Waste Site - 600-152</b>																									
CDC0502A	Excavation	12	10NOV08	02DEC08	6,010	09SEP08	18SEP08	-35	-40	Excavation Process - Rem Wst Site - 600-152															
CDC0502B	Loadout - Rem	13	10DEC08	06JAN09	563	07OCT08	16OCT08	-35	-41	Loadout - Rem Wst Site - 600-152															
CDC0502D	Closeout Smpg	243	07JAN09	24MAR10	1,975	20OCT08	05AUG09	-41	-125	Closeout Smpg - Rem Wst Site - 600-152															
CDC0502C	Backfill - Rem	6	15APR10	26APR10	1,128	21DEC09	28DEC09	-63	-66	Backfill - Rem Wst Site - 600-152															
CDC0502E	Revegetation -	49	14JUL10	07OCT10	64	28JAN10	28JAN10	-92	-140	Revegetation - Rem Wst Site - 600-152															
<b>CDC0503 Remediate Waste Site - 100-H-33</b>																									
CDC0503A	Excavation	28	11NOV08	06JAN09	186,577	16JAN12*	26JUN12	631	695	Excavation Process - Rem Wst Site - 100-H-33															
CDC0503B	Loadout - Rem	12	07JAN09	27JAN09	62,102	13FEB12	09MAY12	619	657	Loadout - Rem Wst Site - 100-H-33															
CDC0503D	Closeout Smpg	244	28JAN09	15APR10	38,192	10MAY12	27FEB13	657	572	Closeout Smpg - Rem Wst Site - 100-H-33															
CDC0503C	Backfill - Rem	7	27APR10	06MAY10	149,193	28FEB13	11APR13	567	585	Backfill - Rem Wst Site - 100-H-33															
CDC0503E	Revegetation -	49	11OCT10	11JAN11	2,585	15APR13	23APR13	500	457	Revegetation - Rem Wst Site - 100-H-33															
<b>CDC0601 Remediate Burial Ground - 118-H-1</b>																									
CDC0601A	Excavation -	93	20AUG09	09FEB10	4,825,856	05JAN09*	14JUL09	-128	-114	Excavation - Rem BG - 118-H-1															
CDC0601B	Loadout - Rem	92	21SEP09	09MAR10	1,795,946	02FEB09	11AUG09	-128	-113	Loadout - Rem BG - 118-H-1															
CDC0601D	Closeout Smpg	243	10MAR10	24MAY11	91,544	12AUG09	27MAY10	-113	-197	Closeout Smpg - Rem BG - 118-H-1															
CDC0601C	Backfill - Rem	17	25MAY11	23JUN11	1,403,836	01JUN10	05AUG10	-197	-176	Backfill - Rem BG - 118-H-1															
CDC0601E	Revegetation -	50	27JUL11	24OCT11	27,200	14SEP10	27SEP10	-173	-215	Revegetation - Rem BG - 118-H-1															
<b>CDC0602 Remediate Burial Ground - 118-H-2</b>																									
CDC0602A	Excavation -	7	10FEB10	23FEB10	127,220	15JUL09	06AUG09	-114	-107	Excavation - Rem BG - 118-H-2															

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
CDC0602B	Loadout - Rem	5	11MAR10	18MAR10	70,196	12AUG09	03SEP09	-114	-105	█ Loadout - Rem BG - 118-H-2												
CDC0602D	Closeout Smpg	243	22MAR10	06JUN11	1,060	08SEP09	23JUN10	-105	-189	█ Closeout Smpg - Rem BG - 118-H-2												
CDC0602C	Backfill - Rem	2	27JUN11	28JUN11	16,260	09AUG10	16AUG10	-176	-173	█ Backfill - Rem BG - 118-H-2												
CDC0602E	Revegetation -	49	25OCT11	25JAN12	316	28SEP10	28SEP10	-215	-263	█ Revegetation - Rem BG - 118-H-2												
<b>CDC0603 Remediate Burial Ground - 118-H-3</b>																						
CDC0603A	Excavation -	16	24FEB10	23MAR10	1,527,904	10AUG09	29SEP09	-107	-94	█ Excavation - Rem BG - 118-H-3												
CDC0603B	Loadout - Rem	20	24MAR10	27APR10	470,158	08SEP09	27OCT09	-107	-98	█ Loadout - Rem BG - 118-H-3												
CDC0603D	Closeout Smpg	243	28APR10	14JUL11	20,720	28OCT09	16AUG10	-98	-182	█ Closeout Smpg - Rem BG - 118-H-3												
CDC0603C	Backfill - Rem	4	18JUL11	21JUL11	317,762	17AUG10	01SEP10	-182	-176	█ Backfill - Rem BG - 118-H-3												
CDC0603E	Revegetation -	49	26JAN12	23APR12	6,156	29SEP10	30SEP10	-263	-310	█ Revegetation - Rem BG - 118-H-3												
<b>CDC0604 Remediate Burial Ground - 118-H-4</b>																						
CDC0604A	Excavation -	2	24MAR10	25MAR10	197,712	30SEP09	13OCT09	-94	-88	█ Excavation - Rem BG - 118-H-4												
CDC0604B	Loadout - Rem	4	21APR10	27APR10	99,040	28OCT09	10NOV09	-94	-90	█ Loadout - Rem BG - 118-H-4												
CDC0604D	Closeout Smpg	243	28APR10	14JUL11	2,572	11NOV09	30AUG10	-90	-174	█ Closeout Smpg - Rem BG - 118-H-4												
CDC0604C	Backfill - Rem	1	25JUL11	25JUL11	39,440	02SEP10	08SEP10	-176	-174	█ Backfill - Rem BG - 118-H-4												
CDC0604E	Revegetation -	49	24APR12	19JUL12	764	04OCT10	04OCT10	-310	-358	█ Revegetation - Rem BG - 118-H-4												
<b>CDC0605 Remediate Burial Ground - 118-H-5</b>																						
CDC0605A	Excavation -	2	29MAR10	30MAR10	1,397,490	14OCT09	20OCT09	-88	-86	█ Excavation - Rem BG - 118-H-5												
CDC0605B	Loadout - Rem	2	26APR10	27APR10	563,552	11NOV09	17NOV09	-88	-86	█ Loadout - Rem BG - 118-H-5												
CDC0605D	Closeout Smpg	243	28APR10	14JUL11	1,449,282	18NOV09	07SEP10	-86	-170	█ Closeout Smpg - Rem BG - 118-H-5												
CDC0605C	Backfill - Rem	1	26JUL11	26JUL11	417,926	09SEP10	13SEP10	-174	-173	█ Backfill - Rem BG - 118-H-5												
CDC0605E	Revegetation -	55	23JUL12	25OCT12	86,204	05OCT10	05OCT10	-358	-412	█ Revegetation - Rem BG - 118-H-5												
<b>CDR25 Fld. Rem.-100 H Non Site Specific Support</b>																						
0041.99918	TPA M-16-50	0	01OCT08*		0	31JUL07*		-235	-235	◆ TPA M-16-50 Init RA 100 H												
0041.99922	TPA M-16-51	0		25OCT12*	0		29DEC10*	-367	-367	◆ TPA M-16-51 Comp RA 100 H												
<b>CDR2501 Fld. Rem.-100 H Non Site Specific Support</b>																						
CDR2501A1	Fld. Rem.-100	165	03OCT05A	28SEP06A	67,833	05DEC05*	28SEP06	34	0	█ Fld. Rem.-100 H Non Site Specific Support												
CDR2501A2	Fld. Rem.-100	165	01OCT07*	28JUL08	356,208	02OCT06	27SEP07	-199	-165	█ Fld. Rem.-100 H Non Site Specific Support												
CDR2501A3	Fld. Rem.-100	16	21JUL08*	14AUG08	107,951	01OCT07	30SEP08	-160	25	█ Fld. Rem.-100 H Non Site Specific Support												
CDR2501A4	Fld. Rem.-100	242	21JUL08	01OCT09	1,514,877	01OCT08	30SEP09	41	-1	█ Fld. Rem.-100 H Non Site Specific Support												
CDR2501A6	Fld. Rem.-100	200	01OCT09*	30SEP10	20,972	04OCT10	29DEC10	200	47	█ Fld. Rem.-100 H Non Site Specific Support												
CDR2501A7	Fld. Rem.-100	200	01OCT09	30SEP10	131,172	03JAN12*	27SEP12	447	398	█ Fld. Rem.-100 H Non Site Specific Support												
CDR2501A5	Fld. Rem.-100	401	01OCT08*	04OCT10	1,341,927	01OCT09	30SEP10	200	-1	█ Fld. Rem.-100 H Non Site Specific Support												
CDR2501A8	Fld. Rem.-100	464	04JAN10*	25APR12	98,957	01OCT12*	30APR13	550	202	█ Fld. Rem.-100 H Non Site Specific S												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
<b>IS ISS</b>																						
<b>BBA Iss-Interim Safe Storage</b>																						
0041.99935	TPA M-93-18	0		20OCT05A	0		29DEC05*	36	36	◆ TPA M-93-18 Comp ISS 105 H												
<b>BBA2101 Interim Safe Storage - 105-H REACTOR (ISS)</b>																						
BBA2101B	Deact & Decom	4	29AUG05A	29AUG05A	0	31AUG05	07SEP05	2	5	■ Deact & Decom - ISS - 105-H Reactor												
BBA2101C	Demolition	3	29AUG05A	29AUG05A	0	08SEP05	13SEP05	6	8	■ Demolition Above Grade - ISS - 105-H Reactor												
BBA2101D	Demolition	4	29AUG05A	29AUG05A	0	14SEP05	20SEP05	9	12	■ Demolition Below Grade - ISS - 105-H Reactor												
BBA2101E	Loadout - ISS -	5	29AUG05A	29AUG05A	0	06OCT05	13OCT05	22	26	■ Loadout - ISS - 105-H Reactor												
BBA2101F	SSE Design -	5	29AUG05A	29AUG05A	0	01SEP05	12SEP05	3	7	■ SSE Design - ISS - 105-H Reactor												
BBA2101H	Closeout/Transit	8	29AUG05A	01SEP05A	154,677	03JAN06	28SEP06	67	214	■ Closeout/Transition - ISS - 105-H Reactor												
BBA2101G	SSE - ISS -	141	29AUG05A	29JUN06A	1,205,762	17OCT05	29DEC05	27	-101	■ SSE - ISS - 105-H Reactor												
BBA2101A	Plan &	215	29AUG05A	20JUL06A	0	29AUG05	31AUG05	0	-176	■ Plan & Document - ISS - 105-H Reactor												
<b>100 K AREA 100 K Area</b>																						
<b>DE Remedial Design</b>																						
<b>CED0101 Fld. Rem.-100K Area Design</b>																						
CED0101A	Fld. Rem.-100K	400	03OCT05A	30SEP08	624,018	02OCT06*	30SEP08	199	0	■ Fld. Rem.-100K Area Design												
<b>DD D4</b>																						
<b>AAE0755 D4 Building - 183 KW</b>																						
AAE0755A	Plan &	2	29AUG05A	30AUG05A	62,945	03JAN06*	24JAN06	67	78	■ Plan & Document - 183 KW												
AAE0755B	Deact & Decom	21	29AUG05A	29SEP05A	218,265	11JAN06	15FEB06	72	74	■ Deact & Decom - 183 KW												
AAE0755E	Loadout - 183	10	03OCT05A	18OCT05A	42,050	06MAR06	21MAR06	82	82	■ Loadout - 183 KW												
AAE0755C	Demolition	33	29AUG05A	25OCT05A	100,587	16FEB06	27FEB06	93	65	■ Demolition Above Grade - 183 KW												
<b>AAE0757 D4 Building - 183.1KW</b>																						
AAE0757B	Deact & Decom	32	19SEP05A	10NOV05A	274,256	22APR08	16JUL08	517	533	■ Deact & Decom - 183.1KW												
AAE0757A	Plan &	4	03JUL06A	16MAY07	0	01APR08*	21MAY08	348	203	■ Plan & Document - 183.1KW												
<b>AAE10 D4-Retention Basins</b>																						
0041.00219	Release KE	0	26MAR07*		0	02OCT06*		-94	-94	◆ Release KE Reactor												
<b>RA Field Remediation</b>																						
<b>CEA0316 Confirmatory Sampling Site - 100-K-63</b>																						
CEA0316B	Smplg and	25	26MAR07	07MAY07	40,121	15DEC10	01FEB11	746	746	■ Smplg and Analysis - CS Site - 100-K-63												
CEA0316A	Work	50	26MAR07	20JUN07	7,532	29OCT09	02FEB10	522	522	■ Work Instructions - CS Site - 100-K-63												
CEA0316C	RSVP or RTD	84	26MAR07	21AUG07	10,137	07FEB11	06JUL11	773	773	■ RSVP or RTD Report - CS Site - 100-K-63												
<b>CEA0317 Confirmatory Sampling Site - 100-K-64</b>																						
CEA0317B	Smplg and	25	28MAR07	09MAY07	40,121	20DEC10	03FEB11	746	746	■ Smplg and Analysis - CS Site - 100-K-64												
CEA0317A	Work	50	09APR07	05JUL07	7,532	12NOV09	17FEB10	522	522	■ Work Instructions - CS Site - 100-K-64												
CEA0317C	RSVP or RTD	84	28MAR07	23AUG07	10,137	09FEB11	11JUL11	773	773	■ RSVP or RTD Report - CS Site - 100-K-64												





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
<b>CEC0542 Remediate Waste Site - 116-KW-3</b>											■ Revegetation - Rem Wst Site - 116-KW-3											
CEC0542E	Revegetation -	2	08FEB06A	28MAR06A	19,871	01NOV05	02NOV05	-52	-77													
<b>CEC0543 Remediate Waste Site - 116-K-1</b>											■ Revegetation - Rem Wst Site - 116-K-1											
CEC0543E	Revegetation -	2	08FEB06A	28MAR06A	11,788	03NOV05	07NOV05	-50	-75													
<b>CEC0602 Remediate Burial Ground - 118-K-1</b>											■ Excavation - Rem BG - 118-K-1 ■ Loadout - Rem BG - 118-K-1 ■ Closeout Smpg - Rem BG - 118-K-1 ■ Backfill - Rem BG - 118-K-1 ■ Revegetation - Rem BG - 118-K-1											
CEC0602A	Excavation -	131	30MAY06A	31MAR09	4,191,479	03JAN06*	14DEC06	-82	-456													
CEC0602B	Loadout - Rem	131	30MAY06A	31MAR09	2,507,123	31JAN06	17JAN07	-66	-440													
CEC0602D	Closeout Smpg	350	01OCT07*	30JUN09	57,462	18JAN07	30OCT07	-141	-332													
CEC0602C	Backfill - Rem	352	31DEC07	29SEP09	1,270,964	31OCT07	10MAR08	-30	-313													
CEC0602E	Revegetation -	200	01OCT09*	30SEP10	40,122	11MAR08	02APR08	-314	-500													
<b>CER2501 Fld. Rem.-100K Non Site Specific Support</b>											■ Fld. Rem.-100K Non Site Specific Support											
CER2501A3	Fld. Rem.-100K	199	14SEP06A	27SEP07	295,059	02OCT06	27SEP07	9	0													
CER2501A4	Fld. Rem.-100K	201	01OCT07	30SEP08	388,416	01OCT07	31MAR08	0	-102													
CER2501A5	Fld. Rem.-100K	200	01OCT08	30SEP09	70,587	01APR09*	30SEP09	98	0													
CER2501A9	Fld. Rem.-100K	116	09MAR10	30SEP10	1,298,960	01OCT12	30APR13	514	514													
<b>IS ISS</b>																						
<b>BCA21 Iss-Interim Safe Storage</b>																						
0041.99936	TPA M-93-23	0		03MAR06A	0		31JUL06*	83	83	◆ TPA M-93-23 Sub EECA KE/KW												
<b>BCA2101 Interim Safe Storage - 105-KE REACTOR (ISS)</b>											■ Plan & Document - ISS - 105-KE Reactor											
BCA2101A	Plan &	201	05OCT05A	22MAR07A	186,009	01MAY06*	31JAN07	112	-28													
<b>BCA2102 Interim Safe Storage - 105-KW REACTOR (ISS)</b>											■ Plan & Document - ISS - 105-KW Reactor											
BCA2102A	Plan &	122	27JUL06A	22MAR07A	67,701	03DEC07*	10JUL08	269	261													
<b>100 N AREA</b>																						
<b>DE Remedial Design</b>																						
<b>CFC0101 Fld. Rem.-100 N Area Design</b>											■ Fld. Rem.-100 N Area Design											
CFC0101A	Fld. Rem.-100	167	12SEP05A	27SEP07	718,143	02OCT06*	01AUG07	211	-32													
<b>DD D4</b>																						
<b>AAF0702 D4 Building - 105NB</b>											■ Deact & Decom - 105NB ■ Plan & Document - 105NB ■ Demolition Above Grade - 105NB ■ Demolition Below Grade - 105NB ■ Loadout - 105NB ■ Transition/Final Closure - 105NB											
AAF0702B	Deact & Decom	41	18MAY06A	25JAN07A	499,268	10MAR09	19MAY09	559	463													
AAF0702A	Plan &	26	27DEC05A	22MAR07	48,601	19FEB09	06APR09	629	407													
AAF0702C	Demolition	12	02JUL08*	23JUL08	57,421	20MAY09	08JUN09	176	174													
AAF0702D	Demolition	4	24JUL08	30JUL08	38,012	09JUN09	06JUL09	174	185													
AAF0702E	Loadout -	16	22JUL08	18AUG08	15,225	17JUN09	22JUL09	181	185													
AAF0702F	Transition/Final	16	19AUG08	16SEP08	13,151	23JUL09	18AUG09	185	184													
<b>AAF0703 D4 Building - 107N</b>											■ Deact & Decom - 107N											
AAF0703B	Deact & Decom	22	29AUG05A	28SEP06A	231,173	01JUL08*	18FEB09	567	475													

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
<b>AAF0703 D4 Building - 107N</b>											Plan & Document - 107N											
AAF0703A	Plan &	256	29AUG05A	01APR08	21,204	29AUG05	23JAN06	0	-438	■												
AAF0703C	Demolition	50	19FEB09	18MAY09	48,960	19FEB09	15APR09	0	-18	■ Demolition Above Grade - 107N												
AAF0703D	Demolition	102	19MAY09	17NOV09	42,378	16APR09	09JUL09	-18	-73	■ Demolition Below Grade - 107N												
AAF0703E	Loadout - 107N	201	17NOV08	17NOV09	15,573	14MAY09	03SEP09	97	-41	■ Loadout - 107N												
AAF0703F	Transition/Final	20	18NOV09	29DEC09	10,355	08SEP09	01DEC09	-41	-14	■ Transition/Final Closure - 107N												
AAF0703M	Complete Bldg	0		09MAR10	0		03SEP09	-99	-99	◆ Complete Bldg 107N Demolition & 118-H-1 Loadout												
<b>AAF0704 D4 Building - 108N</b>											Plan & Document - 108N											
AAF0704A	Plan &	1	23JAN06A	21MAR06A	5,939	02APR12	03MAY12	1,237	1,224	■												
AAF0704B	Deact & Decom	1	07MAR06A	22MAR06A	103,755	16APR12	11JUN12	1,221	1,243	■ Deact & Decom - 108N												
AAF0704C	Demolition	1	23MAR06A	23MAR06A	29,832	12JUN12	25JUN12	1,243	1,250	■ Demolition Above Grade - 108N												
AAF0704D	Demolition	1	04APR06A	30SEP06A	1,606	26JUN12	17JUL12	1,245	1,157	■ Demolition Below Grade - 108N												
AAF0704E	Loadout - 108N	40	03APR06A	30SEP06A	1,798	03JUL12	31JUL12	1,250	1,165	■ Loadout - 108N												
AAF0704F	Transition/Final	16	17MAY07	14JUN07	3,645	01AUG12	21AUG12	1,040	1,036	■ Transition/Final Closure - 108N												
AAF0704M	Compl 100N	0		13DEC12	0		31JUL12	-75	-75	◆ Compl 100N Ancillary Facil Demo(exl 105-N,109-N)												
<b>AAF0706 D4 Building - 1112N</b>											Plan & Document - 1112N											
AAF0706A	Plan &	25	03JUL06A	30SEP06A	1,238	01OCT07*	12NOV07	249	224	■												
AAF0706B	Deact & Decom	8	23JUL08*	05AUG08	26,829	17OCT07	31DEC07	-152	-121	■ Deact & Decom - 1112N												
AAF0706C	Demolition	12	06AUG08	26AUG08	14,151	02JAN08	17JAN08	-121	-123	■ Demolition Above Grade - 1112N												
AAF0706D	Demolition	8	27AUG08	10SEP08	0	21JAN08	13FEB08	-123	-116	■ Demolition Below Grade - 1112N												
AAF0706E	Loadout -	20	25AUG08	29SEP08	4,125	29JAN08	04MAR08	-116	-116	■ Loadout - 1112N												
AAF0706F	Transition/Final	16	30SEP08	27OCT08	4,625	05MAR08	31MAR08	-116	-117	■ Transition/Final Closure - 1112N												
<b>AAF0707 D4 Building - 1120N</b>											Plan & Document - 1120N											
AAF0707A	Plan &	5	04OCT10*	11OCT10	39,477	02AUG10*	28SEP10	-35	-7	■												
AAF0707B	Deact & Decom	8	26OCT10	08NOV10	154,655	24AUG10	29NOV10	-35	10	■ Deact & Decom - 1120N												
AAF0707C	Demolition	4	09NOV10	15NOV10	60,077	30NOV10	21DEC10	10	19	■ Demolition Above Grade - 1120N												
AAF0707D	Demolition	4	16NOV10	22NOV10	0	27DEC10	31JAN11	19	35	■ Demolition Below Grade - 1120N												
AAF0707E	Loadout -	8	06DEC10	16DEC10	26,935	06JAN11	23FEB11	16	35	■ Loadout - 1120N												
AAF0707F	Transition/Final	16	20DEC10	19JAN11	16,561	24FEB11	30MAR11	35	39	■ Transition/Final Closure - 1120N												
<b>AAF0708 D4 Building - 1143N</b>											Plan & Document - 1143N											
AAF0708A	Plan &	21	03JUL06A	24APR07	17,301	01DEC10*	11JAN11	882	741	■												
AAF0708B	Deact & Decom	2	12MAY11*	16MAY11	178,740	15DEC10	15FEB11	-81	-50	■ Deact & Decom - 1143N												
AAF0708C	Demolition	4	17MAY11	23MAY11	26,008	16FEB11	02MAR11	-50	-46	■ Demolition Above Grade - 1143N												
AAF0708D	Demolition	3	24MAY11	26MAY11	0	03MAR11	23MAR11	-46	-37	■ Demolition Below Grade - 1143N												
AAF0708E	Loadout -	7	01JUN11	13JUN11	11,661	09MAR11	06APR11	-47	-37	■ Loadout - 1143N												







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300 Area Building Retention Evaluation Mitigation Plan

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Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year															
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16				
AAF0719F	Transition/Final	16	15SEP08	09OCT08	1,219	08AUG07	01OCT07	-220	-206																
AAF0720 D4 Building - 1322NB																									
AAF0720A	Plan &	20	03JUL06A	30SEP06A	500	02OCT06	03JAN07	50	50																
AAF0720B	Deact & Decom	2	28JUL08	29JUL08	34,074	06NOV06	03APR07	-343	-265																
AAF0720C	Demolition	2	30JUL08	31JUL08	9,811	04APR07	08MAY07	-265	-247																
AAF0720D	Demolition	3	04AUG08	06AUG08	2,081	09MAY07	02JUL07	-247	-220																
AAF0720E	Loadout -	5	04SEP08	11SEP08	2,282	29MAY07	07AUG07	-255	-220																
AAF0720F	Transition/Final	16	15SEP08	09OCT08	1,209	08AUG07	01OCT07	-220	-206																
AAF0721 D4 Building - 1322NC																									
AAF0721A	Plan &	20	03JUL06A	30SEP06A	500	02OCT06	03JAN07	50	50																
AAF0721B	Deact & Decom	2	28JUL08	29JUL08	34,074	06NOV06	03APR07	-343	-265																
AAF0721C	Demolition	2	30JUL08	31JUL08	9,811	04APR07	08MAY07	-265	-247																
AAF0721D	Demolition	3	04AUG08	06AUG08	2,081	09MAY07	02JUL07	-247	-220																
AAF0721E	Loadout -	5	04SEP08	11SEP08	2,282	29MAY07	07AUG07	-255	-220																
AAF0721F	Transition/Final	16	15SEP08	09OCT08	1,209	08AUG07	01OCT07	-220	-206																
AAF0722 D4 Building - 1330N																									
AAF0722B	Deact & Decom	2	15OCT08	16OCT08	119,484	15OCT08	11DEC08	0	30																
AAF0722A	Plan &	42	01OCT08*	16DEC08	30,662	01OCT08*	04NOV08	0	-22																
AAF0722C	Demolition	2	17DEC08	18DEC08	46,414	15DEC08	30DEC08	-2	4																
AAF0722D	Demolition	2	22DEC08	23DEC08	0	31DEC08	21JAN09	4	14																
AAF0722E	Loadout -	4	06JAN09	12JAN09	20,810	08JAN09	04FEB09	2	14																
AAF0722F	Transition/Final	16	13JAN09	09FEB09	12,794	05FEB09	26FEB09	14	10																
AAF0723 D4 Building - 1331N																									
AAF0723A	Plan &	71	03OCT05A	19DEC05A	104	01FEB10*	07JUN10	863	891																
AAF0723B	Deact & Decom	2	05DEC05A	19DEC05A	2,278	24MAR10	13OCT10	858	963																
AAF0723C	Demolition	2	27DEC05A	27DEC05A	2,063	14OCT10	07DEC10	961	989																
AAF0723D	Demolition	2	17JAN06A	18JAN06A	0	08DEC10	28FEB11	979	1,020																
AAF0723E	Loadout -	12	18JAN06A	26JAN06A	652	10JAN11	19APR11	993	1,044																
AAF0723F	Transition/Final	5	06FEB06A	16MAR06A	315	20APR11	06JUL11	1,040	1,060																
AAF0724 D4 Building - 1332N																									
AAF0724A	Plan &	6	03OCT05A	21NOV05A	900	03MAY10*	16AUG10	914	944																
AAF0724B	Deact & Decom	2	22NOV05A	22NOV05A	7,550	14JUN10	30NOV10	908	1,001																
AAF0724C	Demolition	2	22NOV05A	22NOV05A	6,838	01DEC10	13JAN11	1,002	1,024																
AAF0724D	Demolition	2	22NOV05A	22NOV05A	0	17JAN11	17MAR11	1,025	1,059																
AAF0724E	Loadout -	2	22NOV05A	22NOV05A	2,162	03FEB11	27APR11	1,036	1,082																

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Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
AAF0724F	Transition/Final	5	22NOV05A	22NOV05A	1,043	28APR11	29JUN11	1,083	1,117	Transition/Final Closure - 1332N												
AAF0725 D4 Building - 13N																						
AAF0725A	Plan &	8	03JUL06A	25JAN07A	319	03FEB09	17FEB09	516	411	Plan & Document - 13N												
AAF0725B	Deact & Decom	2	24JAN07A	25JAN07A	7,182	09FEB09	02MAR09	408	418	Deact & Decom - 13N												
AAF0725C	Demolition	2	02JUL08*	07JUL08	2,619	03MAR09	05MAR09	131	132	Demolition Above Grade - 13N												
AAF0725D	Demolition	2	02JUL08	07JUL08	714	09MAR09	16MAR09	134	137	Demolition Below Grade - 13N												
AAF0725E	Loadout - 13N	4	08JUL08	14JUL08	648	11MAR09	19MAR09	134	136	Loadout - 13N												
AAF0725F	Transition/Final	16	15JUL08	11AUG08	349	23MAR09	30MAR09	136	125	Transition/Final Closure - 13N												
AAF0726 D4 Building - 1515N																						
AAF0726A	Plan &	23	03OCT05A	19DEC05A	36,341	01APR08*	08MAY08	497	477	Plan & Document - 1515N												
AAF0726B	Deact & Decom	2	05DEC05A	19DEC05A	369,943	16APR08	18JUN08	472	499	Deact & Decom - 1515N												
AAF0726C	Demolition	5	29DEC05A	29DEC05A	42,561	19JUN08	07JUL08	495	503	Demolition Above Grade - 1515N												
AAF0726D	Demolition	6	12JAN06A	12JAN06A	28,175	08JUL08	30JUL08	497	510	Demolition Below Grade - 1515N												
AAF0726E	Loadout -	8	03JAN06A	02FEB06A	11,285	16JUL08	14AUG08	508	507	Loadout - 1515N												
AAF0726F	Transition/Final	5	06FEB06A	16MAR06A	9,748	18AUG08	10SEP08	507	498	Transition/Final Closure - 1515N												
AAF0727 D4 Building - 1516N																						
AAF0727A	Plan &	23	03OCT05A	19DEC05A	2,960	01APR08	08MAY08	497	477	Plan & Document - 1516N												
AAF0727B	Deact & Decom	3	05DEC05A	19DEC05A	21,602	16APR08	18JUN08	472	499	Deact & Decom - 1516N												
AAF0727C	Demolition	4	20DEC05A	21DEC05A	19,564	19JUN08	07JUL08	499	506	Demolition Above Grade - 1516N												
AAF0727D	Demolition	5	20DEC05A	21DEC05A	0	08JUL08	30JUL08	508	520	Demolition Below Grade - 1516N												
AAF0727E	Loadout -	16	09JAN06A	02FEB06A	6,186	16JUL08	14AUG08	505	507	Loadout - 1516N												
AAF0727F	Transition/Final	5	06FEB06A	16MAR06A	2,983	18AUG08	10SEP08	507	498	Transition/Final Closure - 1516N												
AAF0728 D4 Building - 1517N																						
AAF0728A	Plan &	23	03OCT05A	19DEC05A	3,977	01APR08	08MAY08	497	477	Plan & Document - 1517N												
AAF0728B	Deact & Decom	3	05DEC05A	19DEC05A	37,533	16APR08	18JUN08	472	499	Deact & Decom - 1517N												
AAF0728C	Demolition	4	27DEC05A	27DEC05A	6,656	19JUN08	07JUL08	497	505	Demolition Above Grade - 1517N												
AAF0728D	Demolition	5	17JAN06A	18JAN06A	0	08JUL08	30JUL08	495	507	Demolition Below Grade - 1517N												
AAF0728E	Loadout -	12	18JAN06A	26JAN06A	1,940	16JUL08	14AUG08	499	511	Loadout - 1517N												
AAF0728F	Transition/Final	5	06FEB06A	16MAR06A	2,175	18AUG08	10SEP08	507	498	Transition/Final Closure - 1517N												
AAF0729 D4 Building - 1518N																						
AAF0729A	Plan &	23	03OCT05A	19DEC05A	2,785	01APR08	08MAY08	497	477	Plan & Document - 1518N												
AAF0729B	Deact & Decom	3	05DEC05A	19DEC05A	36,843	16APR08	18JUN08	472	499	Deact & Decom - 1518N												
AAF0729C	Demolition	4	27DEC05A	27DEC05A	18,104	19JUN08	07JUL08	497	505	Demolition Above Grade - 1518N												
AAF0729D	Demolition	5	17JAN06A	18JAN06A	0	08JUL08	30JUL08	495	507	Demolition Below Grade - 1518N												
AAF0729E	Loadout -	7	18JAN06A	26JAN06A	5,724	16JUL08	14AUG08	499	511	Loadout - 1518N												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt Chart Area																
AAF0729F	Transition/Final	5	06FEB06A	16MAR06A	2,760	18AUG08	10SEP08	507	498	Transition/Final Closure - 1518N																
AAF0730 D4 Building - 1519N																										
AAF0730A	Plan &	23	03OCT05A	19DEC05A	2,959	01APR08	08MAY08	497	477	Plan & Document - 1519N																
AAF0730B	Deact & Decom	3	05DEC05A	19DEC05A	57,663	16APR08	18JUN08	472	499	Deact & Decom - 1519N																
AAF0730C	Demolition	4	20DEC05A	21DEC05A	19,495	19JUN08	07JUL08	499	506	Demolition Above Grade - 1519N																
AAF0730D	Demolition	5	17JAN06A	18JAN06A	0	08JUL08	30JUL08	495	507	Demolition Below Grade - 1519N																
AAF0730E	Loadout -	11	18JAN06A	26JAN06A	6,164	16JUL08	14AUG08	499	511	Loadout - 1519N																
AAF0730F	Transition/Final	5	06FEB06A	16MAR06A	2,972	18AUG08	10SEP08	507	498	Transition/Final Closure - 1519N																
AAF0731 D4 Building - 151N																										
AAF0731A	Plan &	71	03OCT05A	15NOV05A	8,021	14JAN08*	15MAY08	453	498	Plan & Document - 151N																
AAF0731B	Deact & Decom	7	17NOV05A	05DEC05A	130,674	05MAR08	24SEP08	455	561	Deact & Decom - 151N																
AAF0731C	Demolition	12	06DEC05A	08DEC05A	13,904	25SEP08	13NOV08	561	587	Demolition Above Grade - 151N																
AAF0731D	Demolition	20	12DEC05A	26JAN06A	0	17NOV08	05FEB09	587	605	Demolition Below Grade - 151N																
AAF0731F	Transition/Final	5	23FEB06A	30MAR06A	4,544	01APR09	16JUN09	620	642	Transition/Final Closure - 151N																
AAF0731E	Loadout - 151N	12	06DEC05A	27APR06A	4,053	16DEC08	31MAR09	605	583	Loadout - 151N																
AAF0732 D4 Building - 153N																										
AAF0732A	Plan &	71	03OCT05A	15NOV05A	14,767	14JAN08*	15MAY08	453	498	Plan & Document - 153N																
AAF0732B	Deact & Decom	9	17NOV05A	12DEC05A	242,484	04MAR08	23SEP08	454	556	Deact & Decom - 153N																
AAF0732C	Demolition	13	27FEB06A	23FEB06A	25,822	24SEP08	11NOV08	517	545	Demolition Above Grade - 153N																
AAF0732D	Demolition	18	29MAR06A	30MAY06A	0	12NOV08	03FEB09	527	535	Demolition Below Grade - 153N																
AAF0732E	Loadout - 153N	6	07MAR06A	29JUN06A	7,527	10DEC08	25MAR09	554	545	Loadout - 153N																
AAF0732F	Transition/Final	1	03JUL06A	09NOV06A	8,439	26MAR09	10JUN09	545	514	Transition/Final Closure - 153N																
AAF0734 D4 Building - 1614N																										
AAF0734A	Plan &	50	13FEB12*	09MAY12	9	05JUL11*	29SEP11	-121	-121	Plan & Document - 1614N																
AAF0734B	Deact & Decom	80	20MAR12	08AUG12	1,152	09AUG11	04JAN12	-121	-121	Deact & Decom - 1614N																
AAF0734C	Demolition	20	09AUG12	13SEP12	1,043	05JAN12	08FEB12	-121	-121	Demolition Above Grade - 1614N																
AAF0734D	Demolition	30	17SEP12	06NOV12	0	09FEB12	03APR12	-121	-121	Demolition Below Grade - 1614N																
AAF0734E	Loadout -	40	03OCT12	13DEC12	330	29FEB12	08MAY12	-121	-121	Loadout - 1614N																
AAF0734F	Transition/Final	30	17DEC12	11FEB13	159	09MAY12	02JUL12	-121	-121	Transition/Final Closure - 1614N																
AAF0735 D4 Building - 163N																										
AAF0735B	Deact & Decom	14	13MAR06A	19APR06A	1,583,896	01MAY06*	20SEP07	28	285	Deact & Decom - 163N																
AAF0735A	Plan &	202	29AUG05A	28SEP06A	93,505	03OCT05*	04JAN06	19	-149	Plan & Document - 163N																
AAF0735C	Demolition	1	12JUL06A	11OCT06A	141,816	24SEP07	25OCT07	240	208	Demolition Above Grade - 163N																
AAF0735D	Demolition	20	05DEC06A	15FEB07A	0	29OCT07	20DEC07	180	170	Demolition Below Grade - 163N																
AAF0735E	Loadout - 163N	19	01OCT07*	31OCT07	63,583	14NOV07	30JAN08	26	47	Loadout - 163N																





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
AAF0740F	Transition/Final	16	10JUL08	06AUG08	3,858	03NOV08	06APR09	64	131	■ Transition/Final Closure - 1706N												
AAF0741 D4 Building - 1707N																						
AAF0741A	Plan &	36	20MAR06A	10MAY06A	2,663	01JUN11	29AUG11	1,040	1,059	■ Plan & Document - 1707N												
AAF0741B	Deact & Decom	1	10JUL06A	10JUL06A	19,196	07JUL11	29NOV11	998	1,077	■ Deact & Decom - 1707N												
AAF0741C	Demolition	1	11JUL06A	11JUL06A	17,385	30NOV11	09JAN12	1,077	1,096	■ Demolition Above Grade - 1707N												
AAF0741D	Demolition	1	12JUL06A	12JUL06A	0	10JAN12	01MAR12	1,096	1,125	■ Demolition Below Grade - 1707N												
AAF0741E	Loadout -	1	11JUL06A	13JUL06A	5,497	26JAN12	05APR12	1,107	1,144	■ Loadout - 1707N												
AAF0741F	Transition/Final	1	27JUL06A	03MAY07	2,651	09APR12	30MAY12	1,137	1,013	■ Transition/Final Closure - 1707N												
AAF0742 D4 Building - 1712N																						
AAF0742A	Plan &	8	03JUL06A	29JAN07A	102	31JAN08*	13FEB08	315	209	■ Plan & Document - 1712N												
AAF0742B	Deact & Decom	3	14JUL08*	16JUL08	2,038	06FEB08	27FEB08	-87	-78	■ Deact & Decom - 1712N												
AAF0742C	Demolition	3	17JUL08	22JUL08	1,855	28FEB08	04MAR08	-78	-78	■ Demolition Above Grade - 1712N												
AAF0742D	Demolition	3	23JUL08	28JUL08	0	05MAR08	12MAR08	-78	-76	■ Demolition Below Grade - 1712N												
AAF0742E	Loadout -	6	23JUL08	31JUL08	586	10MAR08	18MAR08	-76	-76	■ Loadout - 1712N												
AAF0742F	Transition/Final	16	04AUG08	28AUG08	283	19MAR08	26MAR08	-76	-87	■ Transition/Final Closure - 1712N												
AAF0743 D4 Building - 1714N																						
AAF0743A	Plan &	8	03JUL06A	29JAN07A	1,014	31JAN08	13FEB08	315	209	■ Plan & Document - 1714N												
AAF0743B	Deact & Decom	3	30JUL08*	04AUG08	3,473	06FEB08	27FEB08	-97	-88	■ Deact & Decom - 1714N												
AAF0743C	Demolition	3	05AUG08	07AUG08	1,836	28FEB08	04MAR08	-88	-88	■ Demolition Above Grade - 1714N												
AAF0743D	Demolition	3	11AUG08	13AUG08	0	05MAR08	12MAR08	-88	-86	■ Demolition Below Grade - 1714N												
AAF0743E	Loadout -	6	11AUG08	19AUG08	535	10MAR08	18MAR08	-86	-86	■ Loadout - 1714N												
AAF0743F	Transition/Final	16	20AUG08	17SEP08	600	19MAR08	26MAR08	-86	-97	■ Transition/Final Closure - 1714N												
AAF0744 D4 Building - 1714NA																						
AAF0744A	Plan &	8	08JAN07A	29JAN07A	1,371	31JAN08	13FEB08	214	209	■ Plan & Document - 1714NA												
AAF0744B	Deact & Decom	3	14AUG08*	19AUG08	4,341	06FEB08	27FEB08	-106	-97	■ Deact & Decom - 1714NA												
AAF0744C	Demolition	3	20AUG08	25AUG08	2,294	28FEB08	04MAR08	-97	-97	■ Demolition Above Grade - 1714NA												
AAF0744D	Demolition	3	26AUG08	28AUG08	0	05MAR08	12MAR08	-97	-95	■ Demolition Below Grade - 1714NA												
AAF0744E	Loadout -	6	26AUG08	04SEP08	669	10MAR08	18MAR08	-95	-95	■ Loadout - 1714NA												
AAF0744F	Transition/Final	16	08SEP08	02OCT08	750	19MAR08	26MAR08	-95	-106	■ Transition/Final Closure - 1714NA												
AAF0745 D4 Building - 1714NB																						
AAF0745A	Plan &	20	08JAN07A	29JAN07A	788	31JAN08	13FEB08	214	209	■ Plan & Document - 1714NB												
AAF0745B	Deact & Decom	3	02SEP08*	04SEP08	3,464	06FEB08	27FEB08	-115	-106	■ Deact & Decom - 1714NB												
AAF0745C	Demolition	3	08SEP08	10SEP08	1,394	28FEB08	04MAR08	-106	-106	■ Demolition Above Grade - 1714NB												
AAF0745D	Demolition	3	11SEP08	16SEP08	330	05MAR08	12MAR08	-106	-104	■ Demolition Below Grade - 1714NB												
AAF0745E	Loadout -	6	11SEP08	22SEP08	204	10MAR08	18MAR08	-104	-104	■ Loadout - 1714NB												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
AAF0745F	Transition/Final	16	23SEP08	20OCT08	301	19MAR08	26MAR08	-104	-115	Transition/Final Closure - 1714NB												
AAF0747 D4 Building - 1723N																						
AAF0747B	Deact & Decom	1	17MAY06A	17MAY06A	809,641	07JUL11	29NOV11	1,026	1,105	Deact & Decom - 1723N												
AAF0747A	Plan &	1	13MAR06A	18MAY06A	79,300	01JUN11*	29AUG11	1,044	1,054	Plan & Document - 1723N												
AAF0747C	Demolition	1	18MAY06A	25MAY06A	93,115	30NOV11	09JAN12	1,105	1,120	Demolition Above Grade - 1723N												
AAF0747D	Demolition	1	25MAY06A	08JUN06A	61,641	10JAN12	01MAR12	1,121	1,143	Demolition Below Grade - 1723N												
AAF0747E	Loadout -	1	25MAY06A	08JUN06A	24,690	26JAN12	05APR12	1,131	1,163	Loadout - 1723N												
AAF0747F	Transition/Final	16	21JUN06A	07SEP06A	21,326	09APR12	30MAY12	1,157	1,143	Transition/Final Closure - 1723N												
AAF0748 D4 Building - 181N																						
AAF0748A	Plan &	20	27FEB12*	29MAR12	0	01JUN11	29AUG11	-146	-116	Plan & Document - 181N												
AAF0748B	Deact & Decom	16	02APR12	26APR12	562,522	07JUL11	29NOV11	-146	-82	Deact & Decom - 181N												
AAF0748C	Demolition	12	30APR12	17MAY12	33,192	30NOV11	09JAN12	-82	-74	Demolition Above Grade - 181N												
AAF0748D	Demolition	8	21MAY12	04JUN12	8,965	10JAN12	01MAR12	-74	-52	Demolition Below Grade - 181N												
AAF0748E	Loadout - 181N	20	05JUN12	10JUL12	24,630	26JAN12	05APR12	-72	-52	Loadout - 181N												
AAF0748F	Transition/Final	16	11JUL12	07AUG12	15,143	09APR12	30MAY12	-52	-38	Transition/Final Closure - 181N												
AAF0749 D4 Building - 181NE																						
AAF0749A	Plan &	20	10JAN12*	13FEB12	36,389	01JUN11	29AUG11	-120	-90	Plan & Document - 181NE												
AAF0749B	Deact & Decom	4	14FEB12	21FEB12	627,112	07JUL11	29NOV11	-120	-44	Deact & Decom - 181NE												
AAF0749C	Demolition	4	22FEB12	28FEB12	33,228	30NOV11	09JAN12	-44	-28	Demolition Above Grade - 181NE												
AAF0749D	Demolition	4	29FEB12	06MAR12	8,975	10JAN12	01MAR12	-28	-2	Demolition Below Grade - 181NE												
AAF0749E	Loadout -	8	28MAR12	10APR12	24,657	26JAN12	05APR12	-34	-2	Loadout - 181NE												
AAF0749F	Transition/Final	16	11APR12	08MAY12	15,160	09APR12	30MAY12	-2	12	Transition/Final Closure - 181NE												
AAF0750 D4 Building - 182N																						
AAF0750A	Plan &	214	29AUG05A	19APR07	129,579	04OCT10*	12JAN11	1,018	744	Plan & Document - 182N												
AAF0750B	Deact & Decom	38	01OCT07*	06DEC07	1,322,049	10NOV10	20APR11	623	672	Deact & Decom - 182N												
AAF0750C	Demolition	12	10DEC07	02JAN08	152,041	21APR11	31MAY11	672	682	Demolition Above Grade - 182N												
AAF0750D	Demolition	20	03JAN08	06FEB08	100,650	01JUN11	28JUL11	682	695	Demolition Below Grade - 182N												
AAF0750E	Loadout - 182N	32	18DEC07	14FEB08	40,314	22JUN11	07SEP11	701	712	Loadout - 182N												
AAF0750F	Transition/Final	16	19FEB08	17MAR08	34,821	08SEP11	03NOV11	712	729	Transition/Final Closure - 182N												
AAF0751 D4 Building - 183N																						
AAF0751B	Deact & Decom	143	29AUG05A	25MAY06A	323,742	03OCT11*	29DEC11	1,217	1,116	Deact & Decom - 183N												
AAF0751D	Demolition	16	05SEP06A	29MAR07	0	24JAN12	23FEB12	1,074	979	Demolition Below Grade - 183N												
AAF0751C	Demolition	231	06SEP05A	05APR07	34,464	03JAN12	23JAN12	1,261	957	Demolition Above Grade - 183N												
AAF0751A	Plan &	247	29AUG05A	24MAY07	19,875	03OCT05*	22NOV05	19	-299	Plan & Document - 183N												
AAF0751E	Loadout - 183N	24	05DEC06A	24MAY07	10,046	02FEB12	15MAR12	1,030	959	Loadout - 183N												







Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt chart area with activity bars and milestones												
AAF0761E	Loadout -	4	27AUG08	03SEP08	0	08MAY12	17MAY12	737	740	Loadout - MO-013												
AAF0761F	Transition/Final	16	04SEP08	01OCT08	1,091	21MAY12	29MAY12	740	729	Transition/Final Closure - MO-013												
AAF0762 D4 Building - MO-050																						
AAF0762A	Plan &	9	03JUL06A	28SEP06A	12,214	02APR12	16APR12	1,147	1,106	Plan & Document - MO-050												
AAF0762B	Deact & Decom	14	05SEP06A	02OCT06A	0	05APR12	30APR12	1,115	1,113	Deact & Decom - MO-050												
AAF0762C	Demolition	3	25OCT06A	30NOV06A	55,001	01MAY12	03MAY12	1,100	1,083	Demolition Above Grade - MO-050												
AAF0762D	Demolition	5	05DEC06A	05DEC06A	0	07MAY12	14MAY12	1,082	1,086	Demolition Below Grade - MO-050												
AAF0762E	Loadout -	8	05DEC06A	11JAN07A	0	08MAY12	17MAY12	1,083	1,070	Loadout - MO-050												
AAF0762F	Transition/Final	16	09APR07*	03MAY07	5,029	21MAY12	29MAY12	1,023	1,012	Transition/Final Closure - MO-050												
AAF0763 D4 Building - MO-055																						
AAF0763A	Plan &	20	22JAN07A	19APR07	4,372	02APR12	16APR12	1,038	996	Plan & Document - MO-055												
AAF0763B	Deact & Decom	2	02JUL07*	03JUL07	0	05APR12	30APR12	951	963	Deact & Decom - MO-055												
AAF0763C	Demolition	3	05JUL07	10JUL07	20,021	01MAY12	03MAY12	963	963	Demolition Above Grade - MO-055												
AAF0763D	Demolition	5	11JUL07	18JUL07	0	07MAY12	14MAY12	963	963	Demolition Below Grade - MO-055												
AAF0763E	Loadout -	8	11JUL07	24JUL07	0	08MAY12	17MAY12	964	963	Loadout - MO-055												
AAF0763F	Transition/Final	16	25JUL07	21AUG07	1,830	21MAY12	29MAY12	963	952	Transition/Final Closure - MO-055												
AAF0764 D4 Building - MO-100																						
AAF0764B	Deact & Decom	2	04OCT07*	08OCT07	0	05APR12	30APR12	898	910	Deact & Decom - MO-100												
AAF0764A	Plan &	20	01OCT07*	01NOV07	2,101	02APR12	16APR12	898	887	Plan & Document - MO-100												
AAF0764C	Demolition	3	05NOV07	07NOV07	10,306	01MAY12	03MAY12	895	895	Demolition Above Grade - MO-100												
AAF0764D	Demolition	5	08NOV07	15NOV07	0	07MAY12	14MAY12	895	895	Demolition Below Grade - MO-100												
AAF0764E	Loadout -	8	08NOV07	26NOV07	0	08MAY12	17MAY12	896	895	Loadout - MO-100												
AAF0764F	Transition/Final	16	27NOV07	26DEC07	942	21MAY12	29MAY12	895	884	Transition/Final Closure - MO-100												
AAF0765 D4 Building - MO-358																						
AAF0765A	Plan &	9	03JUL06A	28SEP06A	10,288	02APR12	16APR12	1,147	1,106	Plan & Document - MO-358												
AAF0765B	Deact & Decom	14	05SEP06A	18OCT06A	136,125	05APR12	30APR12	1,115	1,103	Deact & Decom - MO-358												
AAF0765C	Demolition	3	04DEC06A	04DEC06A	47,939	01MAY12	03MAY12	1,080	1,082	Demolition Above Grade - MO-358												
AAF0765D	Demolition	5	08JAN07A	11JAN07A	0	07MAY12	14MAY12	1,066	1,067	Demolition Below Grade - MO-358												
AAF0765E	Loadout -	8	02JAN07A	16APR07	0	08MAY12	17MAY12	1,070	1,018	Loadout - MO-358												
AAF0765F	Transition/Final	16	17APR08*	14MAY08	4,383	21MAY12	29MAY12	817	806	Transition/Final Closure - MO-358												
AAF0766 D4 Building - MO-390																						
AAF0766B	Deact & Decom	2	10JUL08	14JUL08	0	05APR12	30APR12	746	758	Deact & Decom - MO-390												
AAF0766A	Plan &	20	07JUL08*	07AUG08	317	02APR12	16APR12	746	735	Plan & Document - MO-390												
AAF0766C	Demolition	3	11AUG08	13AUG08	2,311	01MAY12	03MAY12	743	743	Demolition Above Grade - MO-390												
AAF0766D	Demolition	5	14AUG08	21AUG08	0	07MAY12	14MAY12	743	743	Demolition Below Grade - MO-390												









Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
AAF0781E	Loadout -	4	27AUG08	03SEP08	0	08MAY12	17MAY12	737	740	Loadout - MO-767												
AAF0781F	Transition/Final	16	04SEP08	01OCT08	59	21MAY12	29MAY12	740	729	Transition/Final Closure - MO-767												
AAF0803 D4 Remaining Facilities - 105NE																						
AAF0803A	Plan &	50	21AUG06A	31MAY07	1,782	03JUL06*	28SEP06	-27	-133	Plan & Document - 105NE												
AAF0803B	Deact & Decom	20	21JUL08*	21AUG08	79,735	01OCT07*	26FEB08	-160	-100	Deact & Decom - 105NE												
AAF0803C	Demolition	12	23AUG10*	13SEP10	6,929	27FEB08	01APR08	-498	-490	Demolition Above Grade - 105NE												
AAF0803D	Demolition	22	14SEP10	20OCT10	5,576	02APR08	22MAY08	-490	-482	Demolition Below Grade - 105NE												
AAF0803E	Loadout -	34	28SEP10	29NOV10	2,435	21APR08	30JUN08	-488	-482	Loadout - 105NE												
AAF0803F	Transition/Final	16	30NOV10	29DEC10	1,310	01JUL08	21AUG08	-482	-468	Transition/Final Closure - 105NE												
AAF0804 D4 Remaining Facilities - 116N																						
AAF0804B	Deact & Decom	80	25APR06A	18MAY06A	76,941	09OCT07	05MAR08	292	357	Deact & Decom - 116N												
AAF0804A	Plan &	50	03OCT05A	27AUG07	15,014	04SEP07*	03DEC07	383	53	Plan & Document - 116N												
AAF0804C	Demolition	16	01OCT09*	28OCT09	204,151	06MAR08	09APR08	-316	-312	Demolition Above Grade - 116N												
AAF0804D	Demolition	14	29OCT09*	23NOV09	71,304	10APR08	03JUN08	-312	-296	Demolition Below Grade - 116N												
AAF0804E	Loadout - 116N	22	19NOV09	05JAN10	29,398	29APR08	09JUL08	-314	-296	Loadout - 116N												
AAF0804F	Transition/Final	16	06JAN10	02FEB10	30,878	10JUL08	02SEP08	-296	-282	Transition/Final Closure - 116N												
AAF0805 D4 Remaining Facilities - 1310N (See WS 116-N-2)																						
AAF0805A	Plan &	50	15JUN06A	19APR07	79,800	03FEB09	30APR09	525	406	Plan & Document - 1310N (incl WS 116-N-2)												
AAF0805B	Deact & Decom	18	01OCT09*	02NOV09	532,596	11MAR09	30JUL09	-114	-52	Deact & Decom - 1310N (incl WS 116-N-2)												
AAF0805C	Demolition	95	03NOV09	27APR10	29,685	03AUG09	03SEP09	-52	-127	Demolition Above Grade - 1310N (incl WS 116-N-2)												
AAF0805D	Demolition	55	28APR10	04AUG10	40,466	08SEP09	28OCT09	-127	-152	Demolition Below Grade - 1310N (incl WS 116-N-2)												
AAF0805E	Loadout -	83	14APR10	09SEP10	655,424	24SEP09	07DEC09	-109	-152	Loadout - 1310N (includes Waste Site 116-N-2)												
AAF0805F	Transition/Final	16	13SEP10	07OCT10	68,131	08DEC09	02FEB10	-152	-138	Transition/Final Closure - 1310N (WS 116-N-2)												
AAF0806 D4 Remaining Facilities - 1524N																						
AAF0806A	Plan &	50	03JUL06A	25JAN07A	24,595	03FEB09	30APR09	516	453	Plan & Document - 1524N												
AAF0806B	Deact & Decom	1	02JUL08*	02JUL08	22,733	11MAR09	30JUL09	136	215	Deact & Decom - 1524N												
AAF0806C	Demolition	1	06JUL10*	06JUL10	36,221	03AUG09	03SEP09	-184	-165	Demolition Above Grade - 1524N												
AAF0806D	Demolition	2	07JUL10	08JUL10	1,051	08SEP09	28OCT09	-165	-137	Demolition Below Grade - 1524N												
AAF0806E	Loadout -	3	10AUG10	12AUG10	502	24SEP09	07DEC09	-174	-137	Loadout - 1524N												
AAF0806F	Transition/Final	16	16AUG10	13SEP10	13,170	08DEC09	02FEB10	-137	-123	Transition/Final Closure - 1524N												
AAF0807 D4 Remaining Facilities - 1525N																						
AAF0807A	Plan &	67	03JUL06A	25JAN07A	32,998	01APR10*	29JUL10	748	702	Plan & Document - 1525N												
AAF0807B	Deact & Decom	29	08MAR07A	08MAR07A	20,490	19MAY10	29NOV10	640	745	Deact & Decom - 1525N												
AAF0807C	Demolition	29	01OCT09*	19NOV09	2,709	30NOV10	19JAN11	231	229	Demolition Above Grade - 1525N												
AAF0807D	Demolition	29	23NOV09	19JAN10	2,103	20JAN11	31MAR11	229	240	Demolition Below Grade - 1525N												





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt Chart Area																
AAF0812E	Loadout -	2	08JUL08	09JUL08	364	05MAR09	08APR09	131	149	Loadout - 1706NA																
AAF0812F	Transition/Final	16	10JUL08	06AUG08	1,688	09APR09	05MAY09	149	148	Transition/Final Closure - 1706NA																
AAF0813 D4 Remaining Facilities - 1715N																										
AAF0813A	Plan &	25	28NOV05A	21DEC05A	78,593	08JUN10*	02SEP10	904	939	Plan & Document - 1715N																
AAF0813B	Deact & Decom	4	27DEC05A	23JAN06A	163,900	14JUL10	06DEC10	909	974	Deact & Decom - 1715N																
AAF0813C	Demolition	4	19JAN06A	26JAN06A	238,864	07DEC10	13JAN11	976	991	Demolition Above Grade - 1715N																
AAF0813D	Demolition	30	08FEB06A	14FEB06A	8,216	17JAN11	09MAR11	985	1,011	Demolition Below Grade - 1715N																
AAF0813E	Loadout -	4	21FEB06A	09MAR06A	27,954	02FEB11	13APR11	989	1,018	Loadout - 1715N																
AAF0813F	Transition/Final	4	07MAR06A	23MAR06A	145,169	14APR11	07JUN11	1,021	1,040	Transition/Final Closure - 1715N																
AAF0814 D4 Remaining Facilities - 1723NX																										
AAF0814A	Plan &	1	13MAR06A	18MAY06A	172,591	01JUN11	29AUG11	1,044	1,054	Plan & Document - 1723NX																
AAF0814B	Deact & Decom	1	31MAY06A	06JUN06A	105,418	07JUL11	29NOV11	1,019	1,095	Deact & Decom - 1723NX																
AAF0814C	Demolition	1	01JUN06A	08JUN06A	0	30NOV11	09JAN12	1,098	1,113	Demolition Above Grade - 1723NX																
AAF0814D	Demolition	1	08JUN06A	08JUN06A	50,130	10JAN12	01MAR12	1,114	1,143	Demolition Below Grade - 1723NX																
AAF0814E	Loadout -	1	01JUN06A	08JUN06A	41,477	26JAN12	05APR12	1,128	1,163	Loadout - 1723NX																
AAF0814F	Transition/Final	1	03JUL06A	07SEP06A	79,388	09APR12	30MAY12	1,151	1,143	Transition/Final Closure - 1723NX																
AAF0815 D4 Remaining Facilities - 1802N																										
AAF0815A	Plan &	59	28SEP05A	17JAN06A	79,300	29AUG05	05DEC05	-17	-22	Plan & Document - 1802N																
AAF0815C	Demolition	56	06FEB06A	30SEP06A	142,074	20MAR06	25APR06	23	-87	Demolition Above Grade - 1802N																
AAF0815B	Deact & Decom	87	26MAR07	27AUG07	0	06OCT05	16MAR06	-290	-290	Deact & Decom - 1802N																
AAF0815D	Demolition	16	06NOV08	08DEC08	198,951	26APR06	22JUN06	-508	-491	Demolition Below Grade - 1802N																
AAF0815F	Transition/Final	16	09DEC08	08JAN09	33,972	03AUG06	02OCT06	-469	-452	Transition/Final Closure - 1802N																
AAF0815E	Loadout -	43	29OCT08	20JAN09	0	17MAY06	02AUG06	-491	-491	Loadout - 1802N																
AAF0816 D4 Remaining Facilities - 181NA																										
AAF0816A	Plan &	20	30APR12*	04JUN12	1,661	01JUN11	29AUG11	-182	-152	Plan & Document - 181NA																
AAF0816B	Deact & Decom	2	05JUN12	06JUN12	52,972	07JUL11	29NOV11	-182	-104	Deact & Decom - 181NA																
AAF0816C	Demolition	2	07JUN12	11JUN12	30,503	30NOV11	09JAN12	-104	-86	Demolition Above Grade - 181NA																
AAF0816D	Demolition	2	12JUN12	13JUN12	4,469	10JAN12	01MAR12	-86	-58	Demolition Below Grade - 181NA																
AAF0816E	Loadout -	4	16JUL12	19JUL12	8,691	26JAN12	05APR12	-94	-58	Loadout - 181NA																
AAF0816F	Transition/Final	16	23JUL12	16AUG12	2,479	09APR12	30MAY12	-58	-44	Transition/Final Closure - 181NA																
AAF0817 D4 Remaining Facilities - 181NB																										
AAF0817A	Plan &	20	04OCT11*	07NOV11	1,780	01JUN11	29AUG11	-69	-39	Plan & Document - 181NB																
AAF0817B	Deact & Decom	2	08NOV11	09NOV11	41,089	07JUL11	29NOV11	-69	9	Deact & Decom - 181NB																
AAF0817C	Demolition	4	10NOV11	16NOV11	13,908	30NOV11	09JAN12	9	25	Demolition Above Grade - 181NB																
AAF0817D	Demolition	4	17NOV11	28NOV11	0	10JAN12	01MAR12	25	51	Demolition Below Grade - 181NB																























Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt Chart Area																
CFB0527E	Revegetation -	17	27NOV06A	08JAN07A	45,252	05APR07	18APR07	71	57	Revegetation - Rem Wst Site - 116-N-1																
CFB0527D	Closeout Smpg	137	03OCT05A	29MAR07	671,901	11APR06	25JAN07	103	-35	Closeout Smpg - Rem Wst Site - 116-N-1																
CFB0528 Remediate Waste Site - 116-N-2 (Bldg 1310N)																										
CFB0528A	Excavation	2	11SEP08	15SEP08	41,884	17SEP08	29SEP08	3	8	Excavation Process - Rem Wst Site - 116-N-2 (D4																
CFB0528B	Loadout - Rem	7	09OCT08	21OCT08	15,671	15OCT08	27OCT08	3	3	Loadout - Rem Wst Site - 116-N-2 (D4 1310N)																
CFB0528D	Closeout Smpg	159	22OCT08	10AUG09	19,223	28OCT08	13AUG09	3	3	Closeout Smpg - Rem Wst Site - 116-N-2 (D4 1310																
CFB0528C	Backfill - Rem	3	11AUG09	13AUG09	12,373	11APR12	16APR12	532	532	Backfill - Rem Wst Site - 116-N-2 (D4 1310N)																
CFB0528E	Revegetation -	1	17AUG09	17AUG09	1,086	25JUN12	25JUN12	570	570	Revegetation - Rem Wst Site - 116-N-2 (D4 1310N)																
CFB0529 Remediate Waste Site - 116-N-4																										
CFB0529A	Excavation	36	15NOV10	24JAN11	179,938	11MAR10	12MAY10	-138	-138	Excavation Process - Rem Wst Site - 116-N-4																
CFB0529B	Loadout - Rem	36	15DEC10	22FEB11	18,265	08APR10	10JUN10	-138	-138	Loadout - Rem Wst Site - 116-N-4																
CFB0529D	Closeout Smpg	159	23FEB11	06DEC11	33,274	14JUN10	30MAR11	-138	-138	Closeout Smpg - Rem Wst Site - 116-N-4																
CFB0529C	Backfill - Rem	13	07DEC11	03JAN12	85,115	19DEC11	12JAN12	6	6	Backfill - Rem Wst Site - 116-N-4																
CFB0529E	Revegetation -	3	04JAN12	09JAN12	2,775	16JAN12	18JAN12	6	6	Revegetation - Rem Wst Site - 116-N-4																
CFB0531 Remediate Waste Site - 118-N-1																										
CFB0531A	Excavation	11	18AUG08	04SEP08	105,699	29JAN09	18FEB09	89	89	Excavation Process - Rem Wst Site - 118-N-1																
CFB0531B	Loadout - Rem	11	16SEP08	02OCT08	9,094	02MAR09	18MAR09	89	89	Loadout - Rem Wst Site - 118-N-1																
CFB0531D	Closeout Smpg	159	06OCT08	22JUL09	12,322	19MAR09	05JAN10	89	89	Closeout Smpg - Rem Wst Site - 118-N-1																
CFB0531E	Revegetation -	1	04NOV09	04NOV09	862	26JUN12	26JUN12	526	526	Revegetation - Rem Wst Site - 118-N-1																
CFB0531C	Backfill - Rem	4	11NOV09	17NOV09	17,262	12MAY10	18MAY10	98	98	Backfill - Rem Wst Site - 118-N-1																
CFB0532 Remediate Waste Site - 120-N-3																										
CFB0532A	Excavation	1	02JUL08	02JUL08	11,175	10JUL08	21JUL08	4	9	Excavation Process - Rem Wst Site - 120-N-3																
CFB0532B	Loadout - Rem	6	31JUL08	11AUG08	3,504	07AUG08	18AUG08	4	4	Loadout - Rem Wst Site - 120-N-3																
CFB0532D	Closeout Smpg	159	12AUG08	28MAY09	6,366	19AUG08	04JUN09	4	4	Closeout Smpg - Rem Wst Site - 120-N-3																
CFB0532C	Backfill - Rem	2	01JUN09	02JUN09	3,114	20OCT11	24OCT11	479	479	Backfill - Rem Wst Site - 120-N-3																
CFB0532E	Revegetation -	1	03JUN09	03JUN09	151	17JUL12	17JUL12	623	623	Revegetation - Rem Wst Site - 120-N-3																
CFB0533 Remediate Waste Site - 120-N-7																										
CFB0533A	Excavation	15	28JUN07*	25JUL07	312	17DEC08	29DEC08	294	284	Excavation Process - Rem Wst Site - 120-N-7																
CFB0533B	Loadout - Rem	15	30JUL07	22AUG07	98	20JAN09	27JAN09	294	284	Loadout - Rem Wst Site - 120-N-7																
CFB0533D	Closeout Smpg	15	23AUG07	19SEP07	178	28JAN09	09NOV09	284	428	Closeout Smpg - Rem Wst Site - 120-N-7																
CFB0533C	Backfill - Rem	15	20SEP07	16OCT07	87	28DEC11	29DEC11	851	838	Backfill - Rem Wst Site - 120-N-7																
CFB0533E	Revegetation -	15	17OCT07	12NOV07	4	08AUG12	08AUG12	960	946	Revegetation - Rem Wst Site - 120-N-7																
CFB0534 Remediate Waste Site - 124-N-1																										
CFB0534A	Excavation	5	29JUL08	05AUG08	286	12NOV08	19NOV08	60	60	Excavation Process - Rem Wst Site - 124-N-1																
CFB0534B	Loadout - Rem	5	26AUG08	03SEP08	115	15DEC08	22DEC08	60	60	Loadout - Rem Wst Site - 124-N-1																

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300 Area Building Retention Evaluation Mitigation Plan

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Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt chart area with activity bars and site labels																
CFB0534D	Closeout Smpg	159	04SEP08	22JUN09	128	23DEC08	07OCT09	60	60	Closeout Smpg - Rem Wst Site - 124-N-1																
CFB0534C	Backfill - Rem	2	06OCT09	07OCT09	109	21DEC11	22DEC11	441	441	Backfill - Rem Wst Site - 124-N-1																
CFB0534E	Revegetation -	1	14OCT09	14OCT09	4	07AUG12	07AUG12	561	561	Revegetation - Rem Wst Site - 124-N-1																
CFB0535 Remediate Waste Site - 124-N-10																										
CFB0535E	Revegetation -	2	11JUN09	15JUN09	9,703	19JUN12	20JUN12	603	603	Revegetation - Rem Wst Site - 124-N-10																
CFB0535C	Backfill - Rem	10	06MAR12	21MAR12	86,616	21MAR12	05APR12	9	9	Backfill - Rem Wst Site - 124-N-10																
CFB0536 Remediate Waste Site - 124-N-2																										
CFB0536A	Excavation	5	17JUL08	24JUL08	286	30DEC08	07JAN09	89	89	Excavation Process - Rem Wst Site - 124-N-2																
CFB0536B	Loadout - Rem	5	14AUG08	21AUG08	115	28JAN09	04FEB09	89	89	Loadout - Rem Wst Site - 124-N-2																
CFB0536D	Closeout Smpg	159	25AUG08	10JUN09	128	05FEB09	17NOV09	89	89	Closeout Smpg - Rem Wst Site - 124-N-2																
CFB0536C	Backfill - Rem	2	26OCT09	27OCT09	109	26APR10	27APR10	98	98	Backfill - Rem Wst Site - 124-N-2																
CFB0536E	Revegetation -	1	02NOV09	02NOV09	4	21JUN12	21JUN12	526	526	Revegetation - Rem Wst Site - 124-N-2																
CFB0537 Remediate Waste Site - 124-N-3																										
CFB0537A	Excavation	5	07AUG08	14AUG08	286	21JAN09	28JAN09	89	89	Excavation Process - Rem Wst Site - 124-N-3																
CFB0537B	Loadout - Rem	5	08SEP08	15SEP08	115	19FEB09	26FEB09	89	89	Loadout - Rem Wst Site - 124-N-3																
CFB0537D	Closeout Smpg	159	16SEP08	01JUL09	128	02MAR09	10DEC09	89	89	Closeout Smpg - Rem Wst Site - 124-N-3																
CFB0537C	Backfill - Rem	2	03NOV09	04NOV09	109	04MAY10	05MAY10	98	98	Backfill - Rem Wst Site - 124-N-3																
CFB0537E	Revegetation -	1	05NOV09	05NOV09	4	27JUN12	27JUN12	526	526	Revegetation - Rem Wst Site - 124-N-3																
CFB0538 Remediate Waste Site - 124-N-4																										
CFB0538A	Excavation	5	08FEB11	15FEB11	143	21APR11	28APR11	41	41	Excavation Process - Rem Wst Site - 124-N-4																
CFB0538B	Loadout - Rem	5	09MAR11	16MAR11	82	19MAY11	26MAY11	41	41	Loadout - Rem Wst Site - 124-N-4																
CFB0538D	Closeout Smpg	159	17MAR11	03JAN12	158	31MAY11	15MAR12	41	41	Closeout Smpg - Rem Wst Site - 124-N-4																
CFB0538C	Backfill - Rem	2	17JAN12	18JAN12	94	19MAR12	20MAR12	34	34	Backfill - Rem Wst Site - 124-N-4																
CFB0538E	Revegetation -	1	19JAN12	19JAN12	11	21MAR12	21MAR12	34	34	Revegetation - Rem Wst Site - 124-N-4																
CFB0539 Remediate Waste Site - 124-N-9																										
CFB0539A	Excavation	5	21JUL08	28JUL08	573	04NOV08	11NOV08	60	60	Excavation Process - Rem Wst Site - 124-N-9																
CFB0539B	Loadout - Rem	5	18AUG08	25AUG08	231	04DEC08	11DEC08	60	60	Loadout - Rem Wst Site - 124-N-9																
CFB0539E	Revegetation -	1	08JUN09	08JUN09	9	23JUL12	23JUL12	624	624	Revegetation - Rem Wst Site - 124-N-9																
CFB0539D	Closeout Smpg	159	26AUG08	11JUN09	255	15DEC08	29SEP09	60	60	Closeout Smpg - Rem Wst Site - 124-N-9																
CFB0539C	Backfill - Rem	2	15JUN09	16JUN09	218	27OCT11	31OCT11	475	475	Backfill - Rem Wst Site - 124-N-9																
CFB0540 Remediate Waste Site - 128-N-1																										
CFB0540E	Revegetation -	1	18AUG09	18AUG09	526	28JUN12	28JUN12	572	572	Revegetation - Rem Wst Site - 128-N-1																
CFB0540C	Backfill - Rem	2	27FEB12	28FEB12	2,524	23APR12	24APR12	32	32	Backfill - Rem Wst Site - 128-N-1																
CFB0541 Remediate Waste Site - 130-N-1																										
CFB0541A	Excavation	1	01JUL08	01JUL08	0	30DEC08	26JAN09	98	112	Excavation Process - Rem Wst Site - 130-N-1																









Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt Chart Area																
CFB0560E	Revegetation -	1	08SEP11	08SEP11	24	12DEC11	12DEC11	51	51	Revegetation - Rem Wst Site - UPR-100-N-25																
CFB0561 Remediate Waste Site - UPR-100-N-26																										
CFB0561A	Excavation	5	20AUG08	27AUG08	2,310	09DEC08	16DEC08	60	60	Excavation Process - Rem Wst Site - UPR-100-N-26																
CFB0561B	Loadout - Rem	5	18SEP08	25SEP08	724	12JAN09	19JAN09	60	60	Loadout - Rem Wst Site - UPR-100-N-26																
CFB0561D	Closeout Smpg	159	29SEP08	15JUL09	1,316	20JAN09	29OCT09	60	60	Closeout Smpg - Rem Wst Site - UPR-100-N-26																
CFB0561C	Backfill - Rem	2	16JUL09	20JUL09	644	11JAN12	12JAN12	495	495	Backfill - Rem Wst Site - UPR-100-N-26																
CFB0561E	Revegetation -	1	21JUL09	21JUL09	31	13AUG12	13AUG12	612	612	Revegetation - Rem Wst Site - UPR-100-N-26																
CFB0562 Remediate Waste Site - UPR-100-N-29																										
CFB0562A	Excavation	7	01NOV10	10NOV10	0	25FEB10	09MAR10	-138	-138	Excavation Process - Rem Wst Site - UPR-100-N-29																
CFB0562B	Loadout - Rem	7	01DEC10	13DEC10	0	25MAR10	06APR10	-138	-138	Loadout - Rem Wst Site - UPR-100-N-29																
CFB0562D	Closeout Smpg	159	14DEC10	28SEP11	0	07APR10	24JAN11	-138	-138	Closeout Smpg - Rem Wst Site - UPR-100-N-29																
CFB0562C	Backfill - Rem	3	04JAN12	09JAN12	0	16JAN12	18JAN12	6	6	Backfill - Rem Wst Site - UPR-100-N-29																
CFB0562E	Revegetation -	1	10JAN12	10JAN12	0	19JAN12	19JAN12	6	6	Revegetation - Rem Wst Site - UPR-100-N-29																
CFB0563 Remediate Waste Site - UPR-100-N-3																										
CFB0563A	Excavation	7	08SEP08	17SEP08	0	19FEB09	03MAR09	89	89	Excavation Process - Rem Wst Site - UPR-100-N-3																
CFB0563B	Loadout - Rem	7	06OCT08	15OCT08	0	19MAR09	31MAR09	89	89	Loadout - Rem Wst Site - UPR-100-N-3																
CFB0563D	Closeout Smpg	159	16OCT08	04AUG09	0	01APR09	18JAN10	89	89	Closeout Smpg - Rem Wst Site - UPR-100-N-3																
CFB0563E	Revegetation -	1	09NOV09	09NOV09	0	28JUN12	28JUN12	526	526	Revegetation - Rem Wst Site - UPR-100-N-3																
CFB0563C	Backfill - Rem	3	05NOV09	10NOV09	0	06MAY10	11MAY10	98	98	Backfill - Rem Wst Site - UPR-100-N-3																
CFB0564 Remediate Waste Site - UPR-100-N-30																										
CFB0564A	Excavation	1	02JUL08	02JUL08	0	15JUL08	24JUL08	6	12	Excavation Process - Rem Wst Site - UPR-100-N-30																
CFB0564B	Loadout - Rem	7	31JUL08	12AUG08	0	12AUG08	21AUG08	6	6	Loadout - Rem Wst Site - UPR-100-N-30																
CFB0564D	Closeout Smpg	159	13AUG08	01JUN09	0	25AUG08	10JUN09	6	6	Closeout Smpg - Rem Wst Site - UPR-100-N-30																
CFB0564C	Backfill - Rem	3	02JUN09	04JUN09	0	21NOV11	28NOV11	495	495	Backfill - Rem Wst Site - UPR-100-N-30																
CFB0564E	Revegetation -	1	08JUN09	08JUN09	0	06JUL11	06JUL11	415	415	Revegetation - Rem Wst Site - UPR-100-N-30																
CFB0565 Remediate Waste Site - UPR-100-N-31(with116-N-1)																										
CFB0565A	Excavation	1	16JUL08	16JUL08	0	09SEP08	29DEC08	30	89	Excavation Process - Rem Wst Site - UPR-100-N-31																
CFB0565B	Loadout - Rem	60	13AUG08	01DEC08	0	07OCT08	27JAN09	30	30	Loadout - Rem Wst Site - UPR-100-N-31																
CFB0565D	Closeout Smpg	159	02DEC08	16SEP09	0	28JAN09	09NOV09	30	30	Closeout Smpg - Rem Wst Site - UPR-100-N-31																
CFB0565C	Backfill - Rem	21	17SEP09	22OCT09	0	18MAR10	22APR10	98	98	Backfill - Rem Wst Site - UPR-100-N-31																
CFB0565E	Revegetation -	4	26OCT09	29OCT09	0	14JUN12	20JUN12	526	526	Revegetation - Rem Wst Site - UPR-100-N-31																
CFB0566 Remediate Waste Site - UPR-100-N-32																										
CFB0566A	Excavation	7	28JUL08	06AUG08	0	08JAN09	20JAN09	89	89	Excavation Process - Rem Wst Site - UPR-100-N-32																
CFB0566B	Loadout - Rem	7	25AUG08	04SEP08	0	05FEB09	18FEB09	89	89	Loadout - Rem Wst Site - UPR-100-N-32																
CFB0566D	Closeout Smpg	159	08SEP08	23JUN09	0	19FEB09	02DEC09	89	89	Closeout Smpg - Rem Wst Site - UPR-100-N-32																





July 2007

300 Area Building Retention Evaluation Mitigation Plan

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Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year														
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16			
CFB0573D	Closeout Smpg	159	01DEC10	15SEP11	16,324	25MAR10	11JAN11	-138	-138	Closeout Smpg - Rem Wst Site - UPR-100-N-6														
CFB0573C	Backfill - Rem	3	19SEP11	21SEP11	7,986	12DEC11	14DEC11	46	46	Backfill - Rem Wst Site - UPR-100-N-5														
CFB0573E	Revegetation -	1	22SEP11	22SEP11	388	15DEC11	15DEC11	46	46	Revegetation - Rem Wst Site - UPR-100-N-5														
CFB0574 Remediate Waste Site - UPR-100-N-6																								
CFB0574A	Excavation	1	08JUL08	08JUL08	5,431	29JUL08	05AUG08	12	16	Excavation Process - Rem Wst Site - UPR-100-N-6														
CFB0574B	Loadout - Rem	5	05AUG08	12AUG08	1,703	26AUG08	03SEP08	12	12	Loadout - Rem Wst Site - UPR-100-N-6														
CFB0574D	Closeout Smpg	159	13AUG08	01JUN09	3,094	04SEP08	22JUN09	12	12	Closeout Smpg - Rem Wst Site - UPR-100-N-6														
CFB0574C	Backfill - Rem	2	02JUN09	03JUN09	1,514	07MAR12	08MAR12	551	551	Backfill - Rem Wst Site - UPR-100-N-6														
CFB0574E	Revegetation -	1	04JUN09	04JUN09	74	12JUN12	12JUN12	603	603	Revegetation - Rem Wst Site - UPR-100-N-6														
CFB0575 Remediate Waste Site - UPR-100-N-7																								
CFB0575A	Excavation	13	14FEB11	08MAR11	85,862	03JUN10	24JUN10	-138	-138	Excavation Process - Rem Wst Site - UPR-100-N-7														
CFB0575B	Loadout - Rem	13	15MAR11	05APR11	26,921	01JUL10	26JUL10	-138	-138	Loadout - Rem Wst Site - UPR-100-N-7														
CFB0575D	Closeout Smpg	159	06APR11	23JAN12	48,914	27JUL10	11MAY11	-138	-138	Closeout Smpg - Rem Wst Site - UPR-100-N-7														
CFB0575E	Revegetation -	1	25JAN12	25JAN12	1,162	27MAR12	27MAR12	34	34	Revegetation - Rem Wst Site - UPR-100-N-7														
CFB0575C	Backfill - Rem	5	23FEB12	01MAR12	23,928	02APR12	09APR12	21	21	Backfill - Rem Wst Site - UPR-100-N-7														
CFB0576 Remediate Waste Site - UPR-100-N-8																								
CFB0576A	Excavation	1	09JUL08	09JUL08	916	06AUG08	13AUG08	16	20	Excavation Process - Rem Wst Site - UPR-100-N-8														
CFB0576B	Loadout - Rem	5	06AUG08	13AUG08	287	04SEP08	11SEP08	16	16	Loadout - Rem Wst Site - UPR-100-N-8														
CFB0576D	Closeout Smpg	159	14AUG08	02JUN09	522	15SEP08	30JUN09	16	16	Closeout Smpg - Rem Wst Site - UPR-100-N-8														
CFB0576C	Backfill - Rem	2	03JUN09	04JUN09	255	12MAR12	13MAR12	552	552	Backfill - Rem Wst Site - UPR-100-N-8														
CFB0576E	Revegetation -	1	08JUN09	08JUN09	12	13JUN12	13JUN12	603	603	Revegetation - Rem Wst Site - UPR-100-N-8														
CFB0577 Remediate Waste Site - UPR-100-N-9																								
CFB0577A	Excavation	5	02JUL08	10JUL08	3,163	27JAN09	03FEB09	112	112	Excavation Process - Rem Wst Site - UPR-100-N-9														
CFB0577B	Loadout - Rem	5	31JUL08	07AUG08	992	25FEB09	04MAR09	112	112	Loadout - Rem Wst Site - UPR-100-N-9														
CFB0577D	Closeout Smpg	159	11AUG08	27MAY09	1,802	05MAR09	16DEC09	112	112	Closeout Smpg - Rem Wst Site - UPR-100-N-9														
CFB0577C	Backfill - Rem	2	29JUL09	30JUL09	881	24JAN12	25JAN12	495	495	Backfill - Rem Wst Site - UPR-100-N-9														
CFB0577E	Revegetation -	1	03AUG09	03AUG09	43	16AUG12	16AUG12	608	608	Revegetation - Rem Wst Site - UPR-100-N-9														
CFB0578 Remediate Waste Site - 100-N-63																								
CFB0578A	Excavation	44	01OCT08*	18DEC08	293,634	01SEP10*	17NOV10	383	383	Excavation Process - Rem Wst Site - 100-N-63														
CFB0578B	Loadout - Rem	48	29OCT08	28JAN09	40,183	30SEP10	29DEC10	383	383	Loadout - Rem Wst Site - 100-N-63														
CFB0578D	Closeout Smpg	160	29JAN09	11NOV09	119,440	03JAN11	12OCT11	383	382	Closeout Smpg - Rem Wst Site - 100-N-63														
CFB0578C	Backfill - Rem	24	12NOV09	30DEC09	207,411	13OCT11	28NOV11	382	382	Backfill - Rem Wst Site - 100-N-63														
CFB0578E	Revegetation -	6	04JAN10	12JAN10	0	02JUL12	11JUL12	500	500	Revegetation - Rem Wst Site - 100-N-63														
CFB0579 Remediate Waste Site - 100-N-80																								
CFB0579A	Excavation	1	08JUL08	08JUL08	0	30JUL08	22OCT08	13	60	Excavation Process - Rem Wst Site - 100-N-80														



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
BDA2105C	Demolition	10	15JUN09	30JUN09	6,364	14FEB11	02MAR11	332	332	Demolition Above Grade - 105NA												
BDA2105D	Demolition	15	01JUL09	28JUL09	1,356	03MAR11	29MAR11	332	332	Demolition Below Grade - 105NA												
BDA2105E	Loadout -	20	13JUL09	13AUG09	1,458	14MAR11	14APR11	332	332	Loadout - 105NA												
BDA2105F	Transition/Final	15	17AUG09	10SEP09	829	18APR11	11MAY11	332	332	Transition/Final Closure - 105NA												
<b>BDA2106 D4 Remaining Facilities - 105ND</b>																						
BDA2106A	Plan &	12	05MAR07A	05MAR07A	18	03DEC07*	20DEC07	151	162	Plan & Document - 105ND												
BDA2106B	Deact & Decom	19	06MAR07A	06MAR07A	2,409	11DEC07	16JAN08	155	173	Deact & Decom - 105ND												
BDA2106C	Demolition	10	23AUG07*	11SEP07	4,801	17JAN08	24JAN08	78	73	Demolition Above Grade - 105ND												
BDA2106D	Demolition	10	12SEP07	27SEP07	11	28JAN08	06FEB08	73	70	Demolition Below Grade - 105ND												
BDA2106E	Loadout -	5	01OCT07	08OCT07	1,759	30JAN08	14FEB08	65	70	Loadout - 105ND												
BDA2106F	Transition/Final	6	09OCT07	17OCT07	467	19FEB08	28FEB08	70	71	Transition/Final Closure - 105ND												
<b>100 AREA</b>																						
<b>DE Remedial Design</b>																						
CGD0101 Fld. Rem. - 100 Area Burial Design																						
CGD0101A	Design - 100	417	03OCT05A	27SEP07	172,621	29AUG05	27SEP07	-19	0	Design - 100 Area Burial Design												
CGD0102 Fld. Rem. - 100-IU-2 Remedial Action Design																						
CGD0102A	Design -	98	26MAR07*	17SEP07	0	02OCT06*	29MAR07	-94	-94	Design - 100-IU-2 Remedial Action Design												
CGD0103 Fld. Rem. - 100-IU-6 Remedial Action Design																						
CGD0103A	Design -	98	30JAN06A	27SEP07	36,982	02OCT06*	29MAR07	136	-101	Design - 100-IU-6 Remedial Action Design												
<b>DD D4</b>																						
AAR2501 D4-Non-Site Specific Support 100 Area																						
AAR2501A1	D4-100 Area	19	29AUG05A	01SEP05A	399,929	29AUG05	29SEP05	0	15	D4-100 Area Non-Site Specific Support FY05												
ASA2901 D4-Management and Support																						
ASA2901A9	D4-Managemen	200	01OCT12	30SEP13	7,398,181	01OCT12	30APR13	0	-84	D4-Management and Support FY11												
ASA2901AA	D4-Managemen	9	01OCT13	15OCT13	322,742			0	0	D4-Management and Support FY14												
<b>RA Field Remediation</b>																						
CGB0501 Remediate Waste Site - 600-176																						
CGB0501A	Excavation	5	26JUL11	02AUG11	1,297	25OCT06	01NOV06	-947	-947	Excavation Process - Rem Wst Site - 600-176												
CGB0501B	Loadout - Rem	5	23AUG11	30AUG11	141	27NOV06	04DEC06	-947	-947	Loadout - Rem Wst Site - 600-176												
CGB0501C	Backfill - Rem	2	31AUG11	01SEP11	341	05DEC06	06DEC06	-947	-947	Backfill - Rem Wst Site - 600-176												
CGB0501D	Closeout Smpng	159	06SEP11	20JUN12	106	07DEC06	24SEP07	-947	-947	Closeout Smpng - Rem Wst Site - 600-176												
CGB0501E	Revegetation -	1	21JUN12	21JUN12	74	25SEP07	25SEP07	-947	-947	Revegetation - Rem Wst Site - 600-176												
CGB0502 Remediate Waste Site - 600-182																						
CGB0502A	Excavation	5	05JUL11*	12JUL11	160	03OCT07	10OCT07	-748	-748	Excavation Process - Rem Wst Site - 600-182												
CGB0502B	Loadout - Rem	5	02AUG11	09AUG11	17	31OCT07	07NOV07	-748	-748	Loadout - Rem Wst Site - 600-182												
CGB0502C	Backfill - Rem	2	10AUG11	11AUG11	42	08NOV07	12NOV07	-748	-748	Backfill - Rem Wst Site - 600-182												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
CGB0502D	Closeout Smpg	159	15AUG11	30MAY12	13	13NOV07	28AUG08	-748	-748	Closeout Smpg - Rem Wst Site - 600-182												
CGB0502E	Revegetation -	1	31MAY12	31MAY12	9	02SEP08	02SEP08	-748	-748	Revegetation - Rem Wst Site - 600-182												
CGC05 Fld. Rem.-Waste Sites.-100-IU-6																						
0041.99919	TPA M-16-56	0		31DEC12*	0		31DEC08*	-798	-798	TPA M-16-56 Comp RA 100 IU2 and IU												
CGC0501 Remediate Waste Site - 600-108 (incl 600-257)																						
CGC0501A	Excavation	12	05JUL11*	25JUL11	42,788	02OCT06*	19OCT06	-949	-949	Excavation Process - Rem Wst Site - 600-108 (incl												
CGC0501B	Loadout - Rem	12	02AUG11	22AUG11	6,827	30OCT06	16NOV06	-949	-949	Loadout - Rem Wst Site - 600-108 (includes 600-102												
CGC0501D	Closeout Smpg	159	23AUG11	07JUN12	32,366	20NOV06	06SEP07	-949	-949	Closeout Smpg - Rem Wst Site - 600-108 (incl												
CGC0501C	Backfill - Rem	4	11JUN12	14JUN12	6,317	10SEP07	13SEP07	-949	-949	Backfill - Rem Wst Site - 600-108 (600-257)												
CGC0501E	Revegetation -	1	18JUN12	18JUN12	983	17SEP07	17SEP07	-949	-949	Revegetation - Rem Wst Site - 600-108 (includes												
CGC0502 Remediate Waste Site - 600-149																						
CGC0502A	Excavation	7	01OCT07*	10OCT07	27,001	17OCT06	26OCT06	-190	-190	Excavation Process - Rem Wst Site - 600-149												
CGC0502B	Loadout - Rem	7	29OCT07	07NOV07	2,933	14NOV06	28NOV06	-190	-190	Loadout - Rem Wst Site - 600-149												
CGC0502D	Closeout Smpg	159	08NOV07	26AUG08	2,198	29NOV06	13SEP07	-190	-190	Closeout Smpg - Rem Wst Site - 600-149												
CGC0502C	Backfill - Rem	3	27AUG08	02SEP08	7,106	17SEP07	19SEP07	-190	-190	Backfill - Rem Wst Site - 600-149												
CGC0502E	Revegetation -	1	03SEP08	03SEP08	1,538	20SEP07	20SEP07	-190	-190	Revegetation - Rem Wst Site - 600-149												
CGC0503 Remediate Waste Site - 600-178																						
CGC0503A	Excavation	3	01AUG11	03AUG11	1,057,019	01OCT07*	03OCT07	-765	-765	Excavation Process - Rem Wst Site - 600-178												
CGC0503B	Loadout - Rem	3	29AUG11	31AUG11	0	29OCT07	31OCT07	-765	-765	Loadout - Rem Wst Site - 600-178												
CGC0503D	Closeout Smpg	159	01SEP11	19JUN12	11,181	01NOV07	19AUG08	-765	-765	Closeout Smpg - Rem Wst Site - 600-178												
CGC0503C	Backfill - Rem	1	20JUN12	20JUN12	0	20AUG08	20AUG08	-765	-765	Backfill - Rem Wst Site - 600-178												
CGC0503E	Revegetation -	1	21JUN12	21JUN12	0	21AUG08	21AUG08	-765	-765	Revegetation - Rem Wst Site - 600-178												
CGC0504 Remediate Waste Site - 600-186																						
CGC0504A	Excavation	4	01AUG11	04AUG11	0	09OCT07	15OCT07	-760	-760	Excavation Process - Rem Wst Site - 600-186												
CGC0504B	Loadout - Rem	4	29AUG11	01SEP11	0	06NOV07	12NOV07	-760	-760	Loadout - Rem Wst Site - 600-186												
CGC0504D	Closeout Smpg	159	06SEP11	20JUN12	16,231	13NOV07	28AUG08	-760	-760	Closeout Smpg - Rem Wst Site - 600-186												
CGC0504C	Backfill - Rem	1	21JUN12	21JUN12	0	02SEP08	02SEP08	-760	-760	Backfill - Rem Wst Site - 600-186												
CGC0504E	Revegetation -	1	25JUN12	25JUN12	0	03SEP08	03SEP08	-760	-760	Revegetation - Rem Wst Site - 600-186												
CGC0505 Remediate Waste Site - 600-213																						
CGC0505A	Excavation	5	03AUG11	10AUG11	7,458	11OCT07	18OCT07	-760	-760	Excavation Process - Rem Wst Site - 600-213												
CGC0505B	Loadout - Rem	5	31AUG11	08SEP11	1,268	08NOV07	15NOV07	-760	-760	Loadout - Rem Wst Site - 600-213												
CGC0505D	Closeout Smpg	159	12SEP11	26JUN12	6,671	19NOV07	04SEP08	-760	-760	Closeout Smpg - Rem Wst Site - 600-213												
CGC0505C	Backfill - Rem	2	27JUN12	28JUN12	925	08SEP08	09SEP08	-760	-760	Backfill - Rem Wst Site - 600-213												
CGC0505E	Revegetation -	1	02JUL12	02JUL12	120	10SEP08	10SEP08	-760	-760	Revegetation - Rem Wst Site - 600-213												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
<b>CGC0506 Remediate Waste Site - 600-3</b>																						
CGC0506A	Excavation	96	01NOV10*	26APR11	175,806	15MAR07*	04SEP07	-727	-727													
CGC0506B	Loadout - Rem	96	01DEC10	24MAY11	127,282	12APR07	02OCT07	-727	-727													
CGC0506D	Closeout Smpg	159	25MAY11	13MAR12	86,038	03OCT07	21JUL08	-727	-727													
CGC0506C	Backfill - Rem	34	14MAR12	10MAY12	278,171	22JUL08	18SEP08	-727	-727													
CGC0506E	Revegetation -	7	14MAY12	23MAY12	60,198	22SEP08	01OCT08	-727	-727													
<b>CGC0507 Remediate Waste Site - 600-239</b>																						
CGC0507A	Excavation	48	22SEP11*	19DEC11	0	05MAY08*	29JUL08	-677	-677													
CGC0507B	Loadout - Rem	48	20OCT11	19JAN12	0	03JUN08	26AUG08	-677	-677													
CGC0507C	Backfill - Rem	24	23JAN12	05MAR12	0	27AUG08	08OCT08	-677	-677													
CGC0507D	Closeout Smpg	18	06MAR12	04APR12	0	09OCT08	10NOV08	-677	-677													
CGC0507E	Revegetation -	6	05APR12	16APR12	0	11NOV08	19NOV08	-677	-677													
<b>CGC0508 Remediate Waste Site - 600-146</b>																						
CGC0508A	Excavation	2	03OCT11*	04OCT11	31,088	05MAY08*	06MAY08	-682	-682													
CGC0508B	Loadout - Rem	48	31OCT11	30JAN12	3,653	03JUN08	26AUG08	-682	-682													
CGC0508D	Closeout Smpg	18	31JAN12	01MAR12	19,223	27AUG08	29SEP08	-682	-682													
CGC0508C	Backfill - Rem	24	05MAR12	12APR12	6,714	30SEP08	10NOV08	-682	-682													
CGC0508E	Revegetation -	6	16APR12	24APR12	449	11NOV08	19NOV08	-682	-682													
<b>CGC0509 Remediate Waste Site - 600-280</b>																						
CGC0509A	Excavation	48	22SEP11*	19DEC11	36,959	18JUN07*	11SEP07	-853	-853													
CGC0509B	Loadout - Rem	48	20OCT11	19JAN12	14,612	17JUL07	09OCT07	-853	-853													
CGC0509D	Closeout Smpg	159	23JAN12	31OCT12	19,223	10OCT07	28JUL08	-853	-853													
CGC0509C	Backfill - Rem	24	01NOV12	17DEC12	19,547	29JUL08	09SEP08	-853	-853													
CGC0509E	Revegetation -	6	18DEC12	31DEC12	1,017	10SEP08	18SEP08	-853	-853													
<b>CGC0510 Remediate Waste Site - 600-5</b>																						
CGC0510A	Excavation	48	03OCT11*	29DEC11	29,435	26JUN07	19SEP07	-853	-853													
CGC0510B	Loadout - Rem	48	19OCT11	18JAN12	7,306	25JUL07	17OCT07	-847	-847													
CGC0510D	Closeout Smpg	159	19JAN12	30OCT12	38,446	18OCT07	05AUG08	-847	-847													
CGC0510C	Backfill - Rem	24	31OCT12	13DEC12	3,746	06AUG08	17SEP08	-847	-847													
CGC0510E	Revegetation -	6	17DEC12	27DEC12	741	18SEP08	29SEP08	-847	-847													
<b>CGC0511 Remediate Waste Site - 600-100</b>																						
CGC0511A	Excavation	48	03OCT11	29DEC11	26,480	05JUL07	27SEP07	-848	-848													
CGC0511B	Loadout - Rem	48	19OCT11	18JAN12	7,306	02AUG07	25OCT07	-842	-842													
CGC0511D	Closeout Smpg	159	19JAN12	30OCT12	47,325	29OCT07	13AUG08	-842	-842													
CGC0511C	Backfill - Rem	24	31OCT12	13DEC12	5,728	14AUG08	25SEP08	-842	-842													

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
CGC0511E Revegetation - 6 17DEC12 27DEC12 3,671 29SEP08 07OCT08 -842 -842											Revegetation - Rem Wst Site - 600-100											
CGC0512 Remediate Waste Site - 600-109											Excavation Process - Rem Wst Site - 600-109											
CGC0512A	Excavation	48	03OCT11	29DEC11	1,062,104	16JUL07	08OCT07	-843	-843	Loadout - Rem Wst Site - 600-109												
CGC0512B	Loadout - Rem	48	19OCT11	18JAN12	752,527	13AUG07	05NOV07	-837	-837	Closeout Smpg - Rem Wst Site - 600-109												
CGC0512D	Closeout Smpg	159	19JAN12	30OCT12	62,430	06NOV07	21AUG08	-837	-837	Backfill - Rem Wst Site - 600-109												
CGC0512C	Backfill - Rem	24	31OCT12	13DEC12	926,150	25AUG08	06OCT08	-837	-837	Revegetation - Rem Wst Site - 600-109												
CGC0512E	Revegetation -	6	17DEC12	27DEC12	5,400	07OCT08	15OCT08	-837	-837													
CGC0513 Remediate Waste Site - 600-111											Excavation Process - Rem Wst Site - 600-111											
CGC0513A	Excavation	48	11OCT07	10JAN08	47,572	24JUL07	16OCT07	-45	-45	Loadout - Rem Wst Site - 600-111												
CGC0513B	Loadout - Rem	48	08NOV07	07FEB08	25,571	21AUG07	13NOV07	-45	-45	Closeout Smpg - Rem Wst Site - 600-111												
CGC0513D	Closeout Smpg	159	11FEB08	19NOV08	25,897	14NOV07	02SEP08	-45	-45	Backfill - Rem Wst Site - 600-111												
CGC0513C	Backfill - Rem	24	20NOV08	08JAN09	24,979	03SEP08	14OCT08	-45	-45	Revegetation - Rem Wst Site - 600-111												
CGC0513E	Revegetation -	6	12JAN09	20JAN09	1,229	15OCT08	23OCT08	-45	-45													
CGC0514 Remediate Waste Site - 600-120											Excavation Process - Rem Wst Site - 600-120											
CGC0514A	Excavation	48	03OCT11	29DEC11	149,157	01AUG07	24OCT07	-833	-833	Loadout - Rem Wst Site - 600-120												
CGC0514B	Loadout - Rem	48	19OCT11	18JAN12	91,326	29AUG07	26NOV07	-827	-827	Closeout Smpg - Rem Wst Site - 600-120												
CGC0514D	Closeout Smpg	159	19JAN12	30OCT12	34,933	27NOV07	10SEP08	-827	-827	Backfill - Rem Wst Site - 600-120												
CGC0514C	Backfill - Rem	24	31OCT12	13DEC12	39,128	11SEP08	22OCT08	-827	-827	Revegetation - Rem Wst Site - 600-120												
CGC0514E	Revegetation -	6	17DEC12	27DEC12	3,727	23OCT08	03NOV08	-827	-827													
CGC0515 Remediate Waste Site - 600-124											Excavation Process - Rem Wst Site - 600-124											
CGC0515A	Excavation	48	03OCT11	29DEC11	85,972	09AUG07	01NOV07	-828	-828	Loadout - Rem Wst Site - 600-124												
CGC0515B	Loadout - Rem	48	19OCT11	18JAN12	51,143	10SEP07	04DEC07	-822	-822	Closeout Smpg - Rem Wst Site - 600-124												
CGC0515D	Closeout Smpg	159	19JAN12	30OCT12	34,679	05DEC07	18SEP08	-822	-822	Backfill - Rem Wst Site - 600-124												
CGC0515C	Backfill - Rem	24	31OCT12	13DEC12	9,565	22SEP08	30OCT08	-822	-822	Revegetation - Rem Wst Site - 600-124												
CGC0515E	Revegetation -	6	17DEC12	27DEC12	2,497	03NOV08	11NOV08	-822	-822													
CGC0516 Remediate Waste Site - 600-125											Excavation Process - Rem Wst Site - 600-125											
CGC0516A	Excavation	48	03OCT11	29DEC11	18,476	20AUG07	12NOV07	-823	-823	Loadout - Rem Wst Site - 600-125												
CGC0516B	Loadout - Rem	48	19OCT11	18JAN12	3,653	18SEP07	12DEC07	-817	-817	Closeout Smpg - Rem Wst Site - 600-125												
CGC0516D	Closeout Smpg	159	19JAN12	30OCT12	9,738	13DEC07	29SEP08	-817	-817	Backfill - Rem Wst Site - 600-125												
CGC0516C	Backfill - Rem	24	31OCT12	13DEC12	2,967	30SEP08	10NOV08	-817	-817	Revegetation - Rem Wst Site - 600-125												
CGC0516E	Revegetation -	6	17DEC12	27DEC12	478	11NOV08	19NOV08	-817	-817													
CGC0517 Remediate Waste Site - 600-127											Excavation Process - Rem Wst Site - 600-127											
CGC0517A	Excavation	48	03OCT11	29DEC11	141,313	28AUG07	20NOV07	-818	-818	Loadout - Rem Wst Site - 600-127												
CGC0517B	Loadout - Rem	48	31OCT11	30JAN12	91,326	26SEP07	20DEC07	-818	-818	Closeout Smpg - Rem Wst Site - 600-127												
CGC0517D	Closeout Smpg	18	31JAN12	01MAR12	33,976	26DEC07	28JAN08	-818	-818													





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt Chart																
<b>DAA3002 Waste Ops - ERDF Construction Cells 9 &amp; 10</b>																										
ROCAT010	Design Cells	106	02OCT06A	23APR07	406,570	03AUG11*	26MAR12	966	983	Design Cells 9/10																
ROCAT020	Procure Cells	62	14MAR07A	05JUL07	40,657	27MAR12	19JUN12	1,006	990	Procure Cells 9/10																
<b>DAA3075 Waste Ops - ERDF Construction Support</b>																										
ROCAA010	Construction	417	29AUG05A	09DEC08	1,700,115	04SEP07	01OCT09	402	163	Construction Support Cells 7/8																
<b>DAC3701 Waste Ops-Transportation Routes/Methods</b>																										
ROTKK010	300/600 Area	27	03OCT05A	22MAR07A	167,954	01OCT08*	31MAR09	599	404	300/600 Area Haul Road Design																
ROTKK030	Procure	1,049	14NOV06A	22MAR07A	78,364	01APR09	29JUN09	473	454	Procure 300/600 Area Haul Road																
ROTKK060	Construct	1,099	12JUN06A	22MAR07A	644,307	30JUN09	29JUN10	610	654	Construct 300/600 Area Haul Road																
<b>DAD3B01 Waste Ops-Closure Cells 3 &amp; 4</b>																										
ROXNQ010	Design & Const	96	13FEB06A	27SEP07	639,777	03APR06*	20SEP06	27	-204	Design & Const Interim Cover Cells 3&4																
<b>DAD3B75 Closure Support - Interim Cover Cells</b>																										
ROXNN010	Closure	96	05JUL07*	27DEC07	0	03APR06	20SEP06	-252	-252	Closure Support - Interim Cover Cells 3&4																
<b>DSA2901 Waste Ops-Management and Support</b>																										
RMMOO010	Waste Ops	199	03JAN06A	28SEP06A	343,826	03OCT05	28SEP06	-48	0	Waste Ops Direct Project Support - FY06																
RMMOO080	Waste Ops	200	01OCT12	30SEP13	78,939	01OCT12	29AUG13	0	-16	Waste Ops Direct Project Support - FY11																
RMMOO090	Waste Ops	9	01OCT13	15OCT13	27,554			0	0	Waste Ops Direct Project Support - FY14																
<b>DSB2901 Waste Ops-Field Operations Support</b>																										
RMFPP005	Waste Ops	19	15SEP05A	15SEP05A	55,137	29AUG05	29SEP05	-10	8	Waste Ops Field Operations Support - FY05																
RMFPP070	Waste Ops	199	29AUG05A	27SEP12	1,925,620	03OCT11	27SEP12	1,217	0	Waste Ops Field Operations Support - FY11																
RMFPP080	Waste Ops	200	01OCT12	30SEP13	148,995	01OCT12	29AUG13	0	-16	Waste Ops Field Operations Support - FY13																
RMFPP090	Waste Ops	184	01OCT13	15OCT13	52,079			0	0	Waste Ops Field Operations Support - FY13																
<b>300 AREA 300 Area</b>																										
<b>DE Remedial Design</b>																										
<b>CMC0101 Fld. Rem.-300 Area RS Design</b>																										
CMC0101A	Fld. Rem.-300	818	03OCT05A	05JUN08	3,501,240	29AUG05	30SEP09	-19	264	Fld. Rem.-300 Area RS Design																
<b>DD D4</b>																										
<b>ACA0701 D4 Building - 324 and Assoc Structs (WS 300-25)</b>																										
ACA0701A	Plan &	203	26SEP05A	28SEP06A	248,655	29AUG05	03OCT06	-15	2	Plan & Document - 324 and Associated Structures																
ACA0701B	Deact & Decom	199	03OCT05A	30SEP09	15,230,903	05SEP06*	26FEB09	184	-120	Deact & Decom - 324 and Associated Structures																
ACA0701D	Demolition	48	01OCT09	30DEC09	83,992	23SEP09	22SEP10	-5	147	Demolition Below Grade - 324 and Associated Structures																
ACA0701C	Demolition	96	01OCT09	29MAR10	8,308,480	29DEC08	23JUN10	-154	49	Demolition Above Grade - 324 and Associated Structures																
ACA0701E	Loadout - 324	170	29OCT09	07SEP10	416,692	27JAN09	22SEP10	-154	9	Loadout - 324 and Associated Structures (inc																
ACA0701N	Complete	0		07SEP10	0		22SEP10	9	9	Complete Building 324 Demolition																
ACA0701F	Transition/Final	30	08SEP10	28OCT10	108,800	23SEP10	23MAY11	9	111	Transition/Final Closure - 324 and Associated Structures																

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
<b>ACA0702 D4 Building - 324A</b>																						
ACA0702A	Plan &	220	26MAR07	28APR08	0	29AUG05	03OCT06	-312	-312	Plan & Document - 324A (Cost included in D4 324)												
ACA0702B	Deact & Decom	70	28MAY09	30SEP09	0	20OCT08	26FEB09	-120	-120	Deact & Decom - 324A (Cost included in D4 324)												
ACA0702C	Demolition	32	01OCT09	30NOV09	0	02MAR09	23APR09	-120	-120	Demolition Above Grade - 324A (incl in D4 324)												
ACA0702D	Demolition	16	01DEC09	30DEC09	0	27APR09	21MAY09	-120	-120	Demolition Below Grade - 324A (incl in D4 324)												
ACA0702E	Loadout - 324A	49	08OCT09	11JAN10	0	09MAR09	02JUN09	-120	-120	Loadout - 324A (Cost included in D4 324)												
ACA0702F	Transition/Final	132	08SEP10	05MAY11	0	23SEP10	23MAY11	9	9	Transition/Final Closure - 324A (incl in D4 324)												
<b>ACA0703 D4 Building - 324-BA</b>																						
ACA0703A	Plan &	12	08SEP10	28SEP10	0	23SEP10	13OCT10	9	9	Plan & Document - 324-BA (included in D4 324)												
ACA0703B	Deact & Decom	19	16SEP10	19OCT10	0	04OCT10	03NOV10	9	9	Deact & Decom - 324-BA (Cost included in D4 324)												
ACA0703C	Demolition	5	20OCT10	27OCT10	0	04NOV10	11NOV10	9	9	Demolition Above Grade - 324-BA (incl in D4 324)												
ACA0703D	Demolition	7	28OCT10	09NOV10	0	15NOV10	29NOV10	9	9	Demolition Below Grade - 324-BA (incl in D4 324)												
ACA0703E	Loadout -	9	03NOV10	17NOV10	0	18NOV10	07DEC10	9	9	Loadout - 324-BA (Cost included in D4 324)												
ACA0703F	Transition/Final	7	18NOV10	02DEC10	0	08DEC10	20DEC10	9	9	Transition/Final Closure - 324-BA (incl in D4 324)												
<b>ACA0704 D4 Building - 324D</b>																						
ACA0704A	Plan &	220	26MAR07	28APR08	0	29AUG05	03OCT06	-312	-312	Plan & Document - 324D (Cost included in D4 324)												
ACA0704B	Deact & Decom	70	28MAY09	30SEP09	0	20OCT08	26FEB09	-120	-120	Deact & Decom - 324D (Cost included in D4 324)												
ACA0704C	Demolition	49	01OCT09	04JAN10	0	02MAR09	26MAY09	-120	-120	Demolition Above Grade - 324D (incl in D4 324)												
ACA0704D	Demolition	16	05JAN10	01FEB10	0	27MAY09	23JUN09	-120	-120	Demolition Below Grade - 324D (incl in D4 324)												
ACA0704E	Loadout - 324D	32	05JAN10	02MAR10	0	27MAY09	22JUL09	-120	-120	Loadout - 324D (Cost included in D4 324)												
ACA0704F	Transition/Final	132	08SEP10	05MAY11	0	23SEP10	23MAY11	9	9	Transition/Final Closure - 324D (incl in D4 324)												
<b>ACA0801 D4 Remaining Facilities - 324B</b>																						
ACA0801A	Plan &	204	26MAR07	31MAR08	5,602	04OCT06	10OCT07	-92	-92	Plan & Document - 324B												
ACA0801F	Transition/Final	123	23SEP10	05MAY11	4,296	11OCT10	23MAY11	9	9	Transition/Final Closure - 324B												
<b>ACB0701 D4 Building - 327 and Assoc Structs (WS 300-264)</b>																						
ACB0701C	Demolition	158	29JUL09*	12MAY10	2,759,736	01APR09	04JAN10	-66	-73	Demolition Above Grade - 327 and Associated Structures												
ACB0701B	Deact & Decom	199	03OCT05A	01JUL10	9,768,163	05SEP06	31MAR09	184	-252	Deact & Decom - 327 and Associated Structures												
ACB0701D	Demolition	86	09MAR10*	09AUG10	579	05JAN10	15JUL10	-35	-13	Demolition Below Grade - 327 and Associated Structures												
ACB0701E	Loadout - 327	180	22SEP09*	16AUG10	361,787	30APR09	15JUL10	-79	-17	Loadout - 327 and Associated Structures (incl in D4 327)												
ACB0701M	Complete	0		16AUG10	0		15JUL10	-17	-17	Complete Building 327 Demolition												
ACB0701F	Transition/Final	92	17AUG10	30SEP10	86,274	19JUL10	04JAN11	-17	49	Transition/Final Closure - 327 and Associated Structures												
<b>ACB0702 D4 Building - 327BA</b>																						
ACB0702A	Plan &	104	06JUL10	12JAN11	0	01APR09	05OCT09	-252	-252	Plan & Document - 327BA (included with D4 327)												
ACB0702B	Deact & Decom	166	16SEP10	18JUL11	0	15JUN09	13APR10	-252	-252	Deact & Decom - 327BA (included with D4 327)												
ACB0702C	Demolition	41	19JUL11	28SEP11	0	14APR10	24JUN10	-252	-252	Demolition Above Grade - 327BA (incl with D4 327)												

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300 Area Building Retention Evaluation Mitigation Plan

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Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
ACB0702D	Demolition	62	29SEP11	24JAN12	0	28JUN10	14OCT10	-252	-252	Demolition Below Grade - 327BA (incl with D4 327BA)												
ACB0702E	Loadout -	83	03NOV11	05APR12	0	03AUG10	04JAN11	-252	-252	Loadout - 327BA (Costs included with D4 327BA)												
ACB0702F	Transition/Final	62	09APR12	26JUL12	0	05JAN11	25APR11	-252	-252	Transition/Final Closure - 327BA (incl D4 327BA)												
ADA D4-300 Area Sites																						
0041.99952	TPA M-92-16	0	03OCT05A		0	28SEP06*		198	198	◆TPA M-92-16 300 Area												
0041.99953	TPA M-94-05	0		16FEB06A	0		28SEP06*	124	124	◆TPA M-94-05 Complete D4 of 313 & 314 Facilities												
ADA01 D4-300 Area Sites																						
0041.99970	M-94-06 Compl	0		31DEC07*	0		27DEC07*	-1	-1	◆M-94-06 Compl Removal 3/19 High Priority Facils												
ADA0701 D4 Building - 3225																						
ADA0701B	Deact & Decom	28	24OCT05A	10NOV05A	8,100	16JAN06	06MAR06	43	59	■Deact & Decom - 3225												
ADA0701C	Demolition	7	24OCT05A	10NOV05A	7,860	07MAR06	16MAR06	71	66	■Demolition Above Grade - 3225												
ADA0701D	Demolition	10	24OCT05A	10NOV05A	310	20MAR06	04APR06	78	76	■Demolition Below Grade - 3225												
ADA0701E	Loadout - 3225	14	01NOV05A	10NOV05A	2,448	23MAR06	17APR06	76	83	■Loadout - 3225												
ADA0701A	Plan &	17	03OCT05A	30NOV05A	1,044	03JAN06*	31JAN06	48	32	■Plan & Document - 3225												
ADA0701F	Transition/Final	10	04SEP07*	19SEP07	1,180	18APR06	03MAY06	-276	-276	■Transition/Final Closure - 3225												
ADA0702 D4 Building - 332																						
ADA0702A	Plan &	13	02JUN10*	23JUN10	1,307	01JUL10*	26JUL10	17	17	■Plan & Document - 332												
ADA0702B	Deact & Decom	20	10JUN10	15JUL10	9,700	13JUL10	16AUG10	17	17	■Deact & Decom - 332												
ADA0702C	Demolition	5	19JUL10	26JUL10	9,413	17AUG10	24AUG10	17	17	■Demolition Above Grade - 332												
ADA0702D	Demolition	8	27JUL10	09AUG10	371	25AUG10	08SEP10	17	17	■Demolition Below Grade - 332												
ADA0702E	Loadout - 332	10	02AUG10	17AUG10	2,932	31AUG10	16SEP10	17	17	■Loadout - 332												
ADA0702F	Transition/Final	8	18AUG10	31AUG10	1,414	20SEP10	30SEP10	17	17	■Transition/Final Closure - 332												
ADA0703 D4 Building - 334																						
ADA0703A	Plan &	35	29AUG05A	27OCT05A	1,826	29AUG05	27SEP05	0	-18	■Plan & Document - 334												
ADA0703B	Deact & Decom	9	24OCT05A	22NOV05A	39,483	12SEP05	25OCT05	-24	-16	■Deact & Decom - 334												
ADA0703C	Demolition	19	03NOV05A	07DEC05A	11,371	26OCT05	07NOV05	-5	-16	■Demolition Above Grade - 334												
ADA0703D	Demolition	5	01MAY08*	08MAY08	2,385	08NOV05	28NOV05	-494	-489	■Demolition Below Grade - 334												
ADA0703E	Loadout - 334	13	07NOV05A	21MAY08	2,458	15NOV05	08DEC05	5	-489	■Loadout - 334												
ADA0703F	Transition/Final	20	22MAY08	26JUN08	1,323	12DEC05	29DEC05	-489	-499	■Transition/Final Closure - 334												
ADA0704 D4 Building - 334A																						
ADA0704A	Plan &	17	21SEP05A	18OCT05A	5,964	29AUG05	27SEP05	-13	-12	■Plan & Document - 334A												
ADA0704B	Deact & Decom	26	24OCT05A	22NOV05A	151,613	12SEP05	25OCT05	-24	-16	■Deact & Decom - 334A												
ADA0704C	Demolition	7	03NOV05A	07DEC05A	32,605	26OCT05	07NOV05	-5	-16	■Demolition Above Grade - 334A												
ADA0704D	Demolition	10	03NOV05A	07DEC05A	6,839	08NOV05	28NOV05	2	-6	■Demolition Below Grade - 334A												
ADA0704E	Loadout - 334A	13	07DEC05A	08DEC05A	7,049	15NOV05	08DEC05	-11	0	■Loadout - 334A												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
ADA0704F	Transition/Final	20	25JUN08*	30JUL08	3,794	12DEC05	29DEC05	-507	-517	■ Transition/Final Closure - 334A												
ADA0705 D4 Building - 3727																						
ADA0705A	Plan &	20	07JUN10*	12JUL10	5,959	25JUL11*	15AUG11	226	219	■ Plan & Document - 3727												
ADA0705B	Deact & Decom	20	15JUN10	20JUL10	74,471	02AUG11	06SEP11	226	226	■ Deact & Decom - 3727												
ADA0705C	Demolition	5	21JUL10	28JUL10	32,237	07SEP11	14SEP11	226	226	■ Demolition Above Grade - 3727												
ADA0705D	Demolition	8	29JUL10	11AUG10	6,761	15SEP11	28SEP11	226	226	■ Demolition Below Grade - 3727												
ADA0705E	Loadout - 3727	10	04AUG10	19AUG10	6,970	21SEP11	06OCT11	226	226	■ Loadout - 3727												
ADA0705F	Transition/Final	8	23AUG10	02SEP10	3,751	10OCT11	20OCT11	226	226	■ Transition/Final Closure - 3727												
ADA0707 D4 Building - 303A																						
ADA0707B	Deact & Decom	6	23JAN06A	02FEB06A	30,147	16OCT08	18NOV08	549	560	■ Deact & Decom - 303A												
ADA0707D	Demolition	7	19DEC05A	02FEB06A	2,730	02DEC08	11DEC08	590	572	■ Demolition Below Grade - 303A												
ADA0707A	Plan &	54	07NOV05A	15FEB06A	8,706	08OCT08*	28OCT08	583	541	■ Plan & Document - 303A												
ADA0707C	Demolition	8	16FEB06A	16FEB06A	16,243	19NOV08	01DEC08	553	557	■ Demolition Above Grade - 303A												
ADA0707E	Loadout - 303A	9	27FEB06A	28MAR07	1,931	08DEC08	22DEC08	557	348	■ Loadout - 303A												
ADA0707F	Transition/Final	15	08SEP09*	01OCT09	2,855	23DEC08	07JAN09	-141	-149	■ Transition/Final Closure - 303A												
ADA0708 D4 Building - 303B																						
ADA0708B	Deact & Decom	6	21FEB06A	06MAR06A	30,147	16OCT08	18NOV08	533	544	■ Deact & Decom - 303B												
ADA0708A	Plan &	43	09JAN06A	23MAR06A	8,706	08OCT08	28OCT08	552	521	■ Plan & Document - 303B												
ADA0708C	Demolition	2	04APR06A	05APR06A	16,243	19NOV08	01DEC08	528	531	■ Demolition Above Grade - 303B												
ADA0708E	Loadout - 303B	9	04APR06A	22MAR07A	1,641	08DEC08	22DEC08	536	351	■ Loadout - 303B												
ADA0708D	Demolition	7	01OCT08*	13OCT08	2,730	02DEC08	11DEC08	33	33	■ Demolition Below Grade - 303B												
ADA0708F	Transition/Final	7	22OCT08	03NOV08	2,855	23DEC08	07JAN09	33	33	■ Transition/Final Closure - 303B												
ADA0709 D4 Building - 303C																						
ADA0709A	Plan &	54	09JAN06A	14JUN06A	8,706	08OCT08	28OCT08	552	475	■ Plan & Document - 303C												
ADA0709B	Deact & Decom	8	05JUN06A	14JUN06A	30,147	16OCT08	18NOV08	475	487	■ Deact & Decom - 303C												
ADA0709C	Demolition	1	03JUL06A	06JUL06A	16,243	19NOV08	01DEC08	478	480	■ Demolition Above Grade - 303C												
ADA0709D	Demolition	5	02JUN08*	09JUN08	2,730	02DEC08	11DEC08	101	103	■ Demolition Below Grade - 303C												
ADA0709E	Loadout - 303C	9	01AUG06A	17JUN08	1,931	08DEC08	22DEC08	470	103	■ Loadout - 303C												
ADA0709F	Transition/Final	20	18JUN08	23JUL08	2,855	23DEC08	07JAN09	103	90	■ Transition/Final Closure - 303C												
ADA0710 D4 Building - 303E																						
ADA0710A	Plan &	53	22NOV05A	02MAR06A	8,706	06JUL09*	03AUG09	720	684	■ Plan & Document - 303E												
ADA0710B	Deact & Decom	6	21FEB06A	02MAR06A	30,147	16JUL09	01SEP09	681	701	■ Deact & Decom - 303E												
ADA0710C	Demolition	3	15MAR06A	16MAR06A	16,243	02SEP09	15SEP09	695	700	■ Demolition Above Grade - 303E												
ADA0710D	Demolition	5	02JUL08*	10JUL08	2,730	16SEP09	01OCT09	241	246	■ Demolition Below Grade - 303E												
ADA0710E	Loadout - 303E	14	16MAR06A	23JUL08	1,931	22SEP09	14OCT09	704	246	■ Loadout - 303E												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
ADA0710F	Transition/Final	20	24JUL08	27AUG08	2,855	15OCT09	02NOV09	246	236	Transition/Final Closure - 303E												
ADA0711 D4 Building - 303F																						
ADA0711A	Plan &	48	28NOV05A	23FEB06A	8,706	02OCT06*	19OCT06	169	133	Plan & Document - 303F												
ADA0711B	Deact & Decom	19	01FEB06A	02MAR06A	141,662	10OCT06	09NOV06	139	141	Deact & Decom - 303F												
ADA0711C	Demolition	3	29MAR06A	30MAR06A	16,243	13NOV06	20NOV06	127	130	Demolition Above Grade - 303F												
ADA0711D	Demolition	10	15MAY08*	03JUN08	2,730	21NOV06	05DEC06	-295	-298	Demolition Below Grade - 303F												
ADA0711E	Loadout - 303F	10	29MAR06A	11JUN08	1,931	28NOV06	13DEC06	134	-298	Loadout - 303F												
ADA0711F	Transition/Final	20	12JUN08	17JUL08	2,855	14DEC06	28DEC06	-298	-311	Transition/Final Closure - 303F												
ADA0712 D4 Building - 303G																						
ADA0712B	Deact & Decom	4	24JAN06A	02FEB06A	30,147	10OCT06	09NOV06	144	156	Deact & Decom - 303G												
ADA0712A	Plan &	42	21NOV05A	08FEB06A	8,706	02OCT06	19OCT06	171	141	Plan & Document - 303G												
ADA0712C	Demolition	5	09FEB06A	09FEB06A	16,243	13NOV06	20NOV06	153	157	Demolition Above Grade - 303G												
ADA0712D	Demolition	11	01AUG07*	20AUG07	2,730	21NOV06	05DEC06	-137	-141	Demolition Below Grade - 303G												
ADA0712E	Loadout - 303G	1	13FEB06A	28AUG07	1,931	28NOV06	13DEC06	159	-141	Loadout - 303G												
ADA0712F	Transition/Final	20	11AUG08*	15SEP08	2,855	14DEC06	28DEC06	-330	-343	Transition/Final Closure - 303G												
ADA0713 D4 Building - 303J																						
ADA0713B	Deact & Decom	24	09JAN06A	16FEB06A	242,123	16JUL09	01SEP09	705	708	Deact & Decom - 303J												
ADA0713C	Demolition	5	07MAR06A	08MAR06A	45,771	02SEP09	15SEP09	700	705	Demolition Above Grade - 303J												
ADA0713A	Plan &	35	19DEC05A	09MAR06A	24,389	06JUL09	03AUG09	707	680	Plan & Document - 303J												
ADA0713D	Demolition	5	04JUN09*	11JUN09	7,692	16SEP09	01OCT09	57	62	Demolition Below Grade - 303J												
ADA0713E	Loadout - 303J	1	08MAR06A	24JUN09	5,441	22SEP09	14OCT09	709	62	Loadout - 303J												
ADA0713F	Transition/Final	12	25JUN09*	16JUL09	8,045	15OCT09	02NOV09	62	60	Transition/Final Closure - 303J												
ADA0714 D4 Building - 303M																						
ADA0714A	Plan &	101	29AUG05A	19JAN06A	13,944	29AUG05	02NOV05	0	-40	Plan & Document - 303M												
ADA0714C	Demolition	25	09MAR06A	22MAR06A	26,257	17JAN06	09FEB06	-29	-22	Demolition Above Grade - 303M												
ADA0714B	Deact & Decom	50	21DEC05A	23MAR06A	229,028	26SEP05	16JAN06	-48	-38	Deact & Decom - 303M												
ADA0714M	Complete	0		13JUN06A	0		09FEB06	-68	-68	Complete Building 303M Above Grade Demolition												
ADA0714D	Demolition	5	01AUG07*	08AUG07	4,413	13FEB06	23MAR06	-294	-276	Demolition Below Grade - 303M												
ADA0714E	Loadout - 303M	30	22MAR06A	05SEP07	3,121	28FEB06	19APR06	-13	-276	Loadout - 303M												
ADA0714F	Transition/Final	10	06SEP07	24SEP07	4,615	20APR06	31MAY06	-276	-263	Transition/Final Closure - 303M												
ADA0715 D4 Building - 304 (See Also Waste Site 300-249)																						
ADA0715B	Deact & Decom	7	24JAN06A	02FEB06A	84,067	16OCT08	18NOV08	548	560	Deact & Decom - 304 (incl WS 300-249)												
ADA0715A	Plan &	26	03JAN06A	15FEB06A	8,638	08OCT08	28OCT08	555	541	Plan & Document - 304 (incl WS 300-249)												
ADA0715C	Demolition	4	21FEB06A	23FEB06A	15,892	19NOV08	01DEC08	552	554	Demolition Above Grade - 304 (incl WS 300-249)												
ADA0715E	Loadout - 304	9	01MAR06A	02MAR06A	1,889	08DEC08	22DEC08	555	562	Loadout - 304 (includes Waste Site 300-249)												





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
ADA0720E	Loadout -	13	17OCT06A	17OCT06A	2,184	28SEP09	19OCT09	588	600	Loadout - 305-BA												
ADA0720F	Transition/Final	15	07SEP10*	30SEP10	1,053	20OCT09	03NOV09	-175	-181	Transition/Final Closure - 305-BA												
<b>ADA0721 D4 Building - 305P</b>																						
ADA0721A	Plan &	8	04MAY09*	14MAY09	111	20JUL09*	30JUL09	42	42	Plan & Document - 305P												
ADA0721B	Deact & Decom	12	07MAY09	28MAY09	0	23JUL09	12AUG09	42	42	Deact & Decom - 305P												
ADA0721C	Demolition	3	01JUN09	03JUN09	0	13AUG09	18AUG09	42	42	Demolition Above Grade - 305P												
ADA0721D	Demolition	5	04JUN09	11JUN09	0	19AUG09	26AUG09	42	42	Demolition Below Grade - 305P												
ADA0721E	Loadout - 305P	6	09JUN09	17JUN09	0	24AUG09	01SEP09	42	42	Loadout - 305P												
ADA0721F	Transition/Final	5	18JUN09	25JUN09	260	02SEP09	10SEP09	42	42	Transition/Final Closure - 305P												
<b>ADA0722 D4 Building - 306E (See Also Waste Site 300-41)</b>																						
ADA0722A	Plan &	133	29AUG05A	28SEP06A	309,034	01DEC05*	26JUN06	52	-53	Plan & Document - 306E (incl WS 300-41)												
ADA0722B	Deact & Decom	60	09JAN06A	28SEP06A	4,517,106	03APR06	29MAR07	47	98	Deact & Decom - 306E (incl WS300-41)												
ADA0722C	Demolition	20	21NOV06A	21DEC06A	353,845	01OCT07*	05DEC07	170	190	Demolition Above Grade - 306E (incl WS 300-41)												
ADA0722D	Demolition	20	26MAR07	26APR07	0	06DEC07	18MAR08	142	177	Demolition Below Grade - 306E (incl WS 300-41)												
ADA0722E	Loadout - 306E	302	15JAN07A	05SEP07	64,252	15JAN08	21MAY08	200	142	Loadout - 306E (includes Waste Site 300-41)												
ADA0722M	Complete	0		05SEP07	0		21MAY08	142	142	Complete Building 306E Demolition												
ADA0722F	Transition/Final	20	14JUL08*	14AUG08	9,086	22MAY08	28AUG08	-27	8	Transition/Final Closure - 306E (incl WS 300-41)												
<b>ADA0723 D4 Building - 306E-BA</b>																						
ADA0723A	Plan &	30	01APR08*	21MAY08	1,610	05SEP06*	21FEB07	-313	-251	Plan & Document - 306E-BA												
ADA0723B	Deact & Decom	10	05JUN08	23JUN08	34,771	08NOV06	02AUG07	-313	-177	Deact & Decom - 306E-BA												
ADA0723C	Demolition	5	24JUN08	01JUL08	12,166	06AUG07	09OCT07	-177	-145	Demolition Above Grade - 306E-BA												
ADA0723D	Demolition	5	02JUL08	10JUL08	480	10OCT07	22JAN08	-145	-95	Demolition Below Grade - 306E-BA												
ADA0723E	Loadout -	5	09SEP08	16SEP08	3,789	13NOV07	27MAR08	-163	-95	Loadout - 306E-BA												
ADA0723F	Transition/Final	20	17SEP08	21OCT08	1,827	31MAR08	07JUL08	-95	-60	Transition/Final Closure - 306E-BA												
<b>ADA0724 D4 Building - 306W</b>																						
ADA0724A	Plan &	152	03OCT05A	28SEP06A	541,711	01NOV05*	19APR06	17	-90	Plan & Document - 306W												
ADA0724B	Deact & Decom	1	03JUL06A	28SEP06A	7,820,056	01MAR06*	05DEC07	-69	236	Deact & Decom - 306W												
ADA0724C	Demolition	20	26MAR08*	29APR08	612,579	01OCT07*	05DEC07	-96	-79	Demolition Above Grade - 306W												
ADA0724D	Demolition	30	30APR08*	23JUN08	675,889	06DEC07	18MAR08	-79	-54	Demolition Below Grade - 306W												
ADA0724E	Loadout -	72	28APR08	03SEP08	111,233	15JAN08	21MAY08	-58	-57	Loadout - 306W												
ADA0724F	Transition/Final	13	04SEP08	25SEP08	15,729	22MAY08	28AUG08	-57	-15	Transition/Final Closure - 306W												
<b>ADA0726 D4 Building -309(300-39,TW1,TW2,TW3,WS1,WS2,WS3)</b>																						
ADA0726A	Plan &	231	02NOV09*	03JAN11	322,245	01SEP10*	01FEB11	166	17	Plan & Document - 309 (incl WS 300-39,												
ADA0726B	Deact & Decom	216	06JAN10	02FEB11	4,662,725	01NOV10	28DEC11	166	180	Deact & Decom - 309 (incl WS 300-39,												
ADA0726C	Demolition	60	03FEB11	19MAY11	3,895,303	29DEC11	28FEB12	180	153	Demolition Above Grade - 309 (incl WS 300-39)												

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										Gantt Chart											
ADA0726D	Demolition	60	23MAY11	07SEP11	1,183,623	29FEB12	23MAY12	153	142	Demolition Below Grade - 309 (incl WS 300-309)											
ADA0726E	Loadout - 309	60	21JUL11	03NOV11	65,804	28MAR12	24JUL12	136	142	Loadout - 309 (includes Waste Sites 300-309)											
ADA0726F	Transition/Final	30	07NOV11	04JAN12	264,711	25JUL12	18OCT12	142	161	Transition/Final Closure - 309 (incl WS 300-309)											
ADA0731 D4 Building - 314 (See Also Waste Site 300-218)																					
ADA0731A	Plan &	9	29AUG05A	22SEP05A	140,570	29AUG05	02NOV05	0	23	Plan & Document - 314 (incl WS 300-218)											
ADA0731B	Deact & Decom	60	29AUG05A	29SEP05A	999,360	26SEP05	16JAN06	15	56	Deact & Decom - 314 (incl WS 300-218)											
ADA0731C	Demolition	82	29AUG05A	05DEC05A	280,400	17JAN06	09FEB06	75	36	Demolition Above Grade - 314 (incl WS 300-218)											
ADA0731E	Loadout - 314	30	04OCT05A	26JAN06A	55,360	28FEB06	19APR06	78	46	Loadout - 314 (includes Waste Site 300-218)											
ADA0731D	Demolition	20	04JUN08*	09JUL08	0	13FEB06	23MAR06	-462	-459	Demolition Below Grade - 314 (incl WS 300-218)											
ADA0731F	Transition/Final	20	10JUL08	13AUG08	5,332	20APR06	31MAY06	-444	-441	Transition/Final Closure - 314 (incl WS 300-218)											
ADA0732 D4 Building - 314B																					
ADA0732A	Plan &	38	29AUG05A	29SEP05A	4,429	29AUG05	02NOV05	0	19	Plan & Document - 314B											
ADA0732B	Deact & Decom	60	29AUG05A	29SEP05A	52,930	26SEP05	16JAN06	15	56	Deact & Decom - 314B											
ADA0732C	Demolition	15	29AUG05A	29SEP05A	30,066	17JAN06	09FEB06	75	71	Demolition Above Grade - 314B											
ADA0732D	Demolition	23	29AUG05A	29SEP05A	6,638	13FEB06	23MAR06	90	94	Demolition Below Grade - 314B											
ADA0732E	Loadout - 314B	30	29AUG05A	02APR07	6,842	28FEB06	19APR06	98	-189	Loadout - 314B											
ADA0732F	Transition/Final	20	10JUL12*	13AUG12	3,682	20APR06	31MAY06	-1,242	-1,239	Transition/Final Closure - 314B											
ADA0733 D4 Building - 315A																					
ADA0733A	Plan &	60	03JAN12*	17APR12	13,250	09FEB12	15MAR12	22	-18	Plan & Document - 315A											
ADA0733B	Deact & Decom	32	18APR12	13JUN12	21,342	27FEB12	19APR12	-30	-30	Deact & Decom - 315A											
ADA0733C	Demolition	8	14JUN12	27JUN12	1,336	23APR12	03MAY12	-30	-30	Demolition Above Grade - 315A											
ADA0733D	Demolition	12	28JUN12	19JUL12	49,577	07MAY12	24MAY12	-30	-30	Demolition Below Grade - 315A											
ADA0733E	Loadout - 315A	16	09JUL12	02AUG12	6,691	14MAY12	11JUN12	-30	-30	Loadout - 315A											
ADA0733F	Transition/Final	12	06AUG12	23AUG12	14,271	12JUN12	02JUL12	-30	-30	Transition/Final Closure - 315A											
ADA0734 D4 Building - 315B																					
ADA0734A	Plan &	60	03JAN12	17APR12	1,173	09FEB12	15MAR12	22	-18	Plan & Document - 315B											
ADA0734B	Deact & Decom	32	18APR12	13JUN12	11,279	27FEB12	19APR12	-30	-30	Deact & Decom - 315B											
ADA0734C	Demolition	8	14JUN12	27JUN12	2,016	23APR12	03MAY12	-30	-30	Demolition Above Grade - 315B											
ADA0734D	Demolition	12	28JUN12	19JUL12	353	07MAY12	24MAY12	-30	-30	Demolition Below Grade - 315B											
ADA0734E	Loadout - 315B	16	09JUL12	02AUG12	599	14MAY12	11JUN12	-30	-30	Loadout - 315B											
ADA0734F	Transition/Final	12	06AUG12	23AUG12	671	12JUN12	02JUL12	-30	-30	Transition/Final Closure - 315B											
ADA0735 D4 Building - 315C																					
ADA0735A	Plan &	60	03JAN12	17APR12	3,758	09FEB12	15MAR12	22	-18	Plan & Document - 315C											
ADA0735B	Deact & Decom	32	18APR12	13JUN12	4,686	27FEB12	19APR12	-30	-30	Deact & Decom - 315C											
ADA0735C	Demolition	8	14JUN12	27JUN12	15,898	23APR12	03MAY12	-30	-30	Demolition Above Grade - 315C											



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Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt Chart Area																
ADA0735D	Demolition	12	28JUN12	19JUL12	2,380	07MAY12	24MAY12	-30	-30	Demolition Below Grade - 315C																
ADA0735E	Loadout - 315C	16	09JUL12	02AUG12	1,075	14MAY12	11JUN12	-30	-30	Loadout - 315C																
ADA0735F	Transition/Final	12	06AUG12	23AUG12	4,005	12JUN12	02JUL12	-30	-30	Transition/Final Closure - 315C																
ADA0736 D4 Building - 315D																										
ADA0736A	Plan &	60	03JAN12	17APR12	800	09FEB12	15MAR12	22	-18	Plan & Document - 315D																
ADA0736B	Deact & Decom	32	18APR12	13JUN12	10,627	27FEB12	19APR12	-30	-30	Deact & Decom - 315D																
ADA0736C	Demolition	8	14JUN12	27JUN12	4,600	23APR12	03MAY12	-30	-30	Demolition Above Grade - 315D																
ADA0736D	Demolition	12	28JUN12	19JUL12	965	07MAY12	24MAY12	-30	-30	Demolition Below Grade - 315D																
ADA0736E	Loadout - 315D	16	09JUL12	02AUG12	995	14MAY12	11JUN12	-30	-30	Loadout - 315D																
ADA0736F	Transition/Final	12	06AUG12	23AUG12	535	12JUN12	02JUL12	-30	-30	Transition/Final Closure - 315D																
ADA0740 D4 Building - 320																										
ADA0740A	Plan &	35	05JUL11*	01SEP11	198,774	01MAR11*	28APR11	-70	-70	Plan & Document - 320																
ADA0740B	Deact & Decom	235	28JUL11	27SEP12	3,066,177	24MAR11	23MAY12	-70	-70	Deact & Decom - 320																
ADA0740C	Demolition	14	01OCT12	23OCT12	240,240	24MAY12	19JUN12	-70	-70	Demolition Above Grade - 320																
ADA0740D	Demolition	21	24OCT12	03DEC12	207,123	20JUN12	26JUL12	-70	-70	Demolition Below Grade - 320																
ADA0740E	Loadout - 320	28	06NOV12	31DEC12	43,857	03JUL12	21AUG12	-70	-70	Loadout - 320																
ADA0740F	Transition/Final	21	02JAN13	06FEB13	40,533	22AUG12	27SEP12	-70	-70	Transition/Final Closure - 320																
ADA0741 D4 Building - 320-BA																										
ADA0741A	Plan &	25	08AUG12	20SEP12	2,288	04APR12*	16MAY12	-70	-70	Plan & Document - 320-BA																
ADA0741B	Deact & Decom	39	27AUG12	01NOV12	46,808	23APR12	28JUN12	-70	-70	Deact & Decom - 320-BA																
ADA0741C	Demolition	10	05NOV12	20NOV12	16,378	02JUL12	18JUL12	-70	-70	Demolition Above Grade - 320-BA																
ADA0741D	Demolition	15	26NOV12	19DEC12	646	19JUL12	14AUG12	-70	-70	Demolition Below Grade - 320-BA																
ADA0741E	Loadout -	20	04DEC12	10JAN13	5,101	30JUL12	30AUG12	-70	-70	Loadout - 320-BA																
ADA0741F	Transition/Final	15	14JAN13	06FEB13	2,460	04SEP12	27SEP12	-70	-70	Transition/Final Closure - 320-BA																
ADA0742 D4 Building - 321																										
ADA0742A	Plan &	58	04DEC06A	12APR07	183,668	04JAN10*	10MAR10	614	580	Plan & Document - 321																
ADA0742B	Deact & Decom	48	07JUN10*	30AUG10	2,951,166	28JAN10	27JUN11	-71	164	Deact & Decom - 321																
ADA0742C	Demolition	27	31AUG10	18OCT10	298,063	28JUN11	25JUL11	164	152	Demolition Above Grade - 321																
ADA0742D	Demolition	23	19OCT10	30NOV10	0	26JUL11	01SEP11	152	152	Demolition Below Grade - 321																
ADA0742E	Loadout - 321	30	02NOV10	29DEC10	55,904	09AUG11	29SEP11	152	152	Loadout - 321																
ADA0742F	Transition/Final	23	03JAN11	09FEB11	5,384	03OCT11	09NOV11	152	152	Transition/Final Closure - 321																
ADA0743 D4 Building - 321B																										
ADA0743A	Plan &	52	22JAN07A	10MAY07	12,229	04JAN10	10MAR10	589	564	Plan & Document - 321B																
ADA0743B	Deact & Decom	37	24JUN10	30AUG10	196,698	10MAR11	27JUN11	140	164	Deact & Decom - 321B																
ADA0743C	Demolition	15	31AUG10	27SEP10	22,560	28JUN11	25JUL11	164	164	Demolition Above Grade - 321B																



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Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
ADA0752F	Transition/Final	20	10FEB09	17MAR09	53,209	27APR11	01JUN11	442	442	Transition/Final Closure - 328												
ADA0752C	Demolition	51	06JAN09	06APR09	207,016	03FEB11	28FEB11	416	378	Demolition Above Grade - 328												
ADA0752M	Complete	0		22AUG12	0		26APR11	-266	-266	Complete Building 328, 328A and 328BA Demolition												
ADA0753 D4 Building - 328A																						
ADA0753A	Plan &	30	30OCT06A	26MAR07	4,178	04OCT10	01DEC10	784	738	Plan & Document - 328A												
ADA0753B	Deact & Decom	30	01OCT08	20NOV08	12,094	26OCT10	02FEB11	413	436	Deact & Decom - 328A												
ADA0753C	Demolition	13	24NOV08	17DEC08	6,843	03FEB11	28FEB11	436	436	Demolition Above Grade - 328A												
ADA0753E	Loadout - 328A	12	09DEC08	31DEC08	2,032	14MAR11	26APR11	449	463	Loadout - 328A												
ADA0753F	Transition/Final	20	05JAN09	05FEB09	2,279	27APR11	01JUN11	463	463	Transition/Final Closure - 328A												
ADA0754 D4 Building - 328-BA																						
ADA0754A	Plan &	20	04JUN12*	09JUL12	1,045	04OCT10	01DEC10	-332	-319	Plan & Document - 328-BA												
ADA0754B	Deact & Decom	10	26JUN12	12JUL12	23,003	26OCT10	02FEB11	-332	-289	Deact & Decom - 328-BA												
ADA0754C	Demolition	5	16JUL12	23JUL12	8,048	03FEB11	28FEB11	-289	-281	Demolition Above Grade - 328-BA												
ADA0754D	Demolition	5	24JUL12	31JUL12	318	01MAR11	04APR11	-281	-266	Demolition Below Grade - 328-BA												
ADA0754E	Loadout -	5	15AUG12	22AUG12	2,507	14MAR11	26APR11	-287	-266	Loadout - 328-BA												
ADA0754F	Transition/Final	20	23AUG12	27SEP12	1,209	27APR11	01JUN11	-266	-266	Transition/Final Closure - 328-BA												
ADA0755 D4 Building - 333 (333-WSTF,333-TK-11,333-TK-7)																						
ADA0755BM	Complete D&D	0	19SEP06A		0	28SEP06		6	6	Complete D&D of Bldg 333 and Bldg 166N Demolition												
ADA0755B	Deact & Decom	145	14NOV05A	19SEP06A	8,963,542	20OCT05	19APR07	-13	116	Deact & Decom - 333 (incl WS 333-WSTF)												
ADA0755A	Plan &	204	29AUG05A	28SEP06A	326,055	29AUG05	12JAN06	0	-144	Plan & Document - 333 (incl WS 333-WSTF)												
ADA0755C	Demolition	1	20SEP06A	28SEP06A	373,065	23APR07	13JUN07	116	140	Demolition Above Grade - 333 (incl WS 333-WSTF)												
ADA0755E	Loadout - 333	59	03OCT06A	22MAR07A	35,980	12JUL07	24OCT07	154	120	Loadout - 333 (includes Waste Sites 333-WSTF)												
ADA0755D	Demolition	30	07JAN08*	27FEB08	0	14JUN07	30AUG07	-110	-96	Demolition Below Grade - 333 (incl WS 333-WSTF)												
ADA0755M	Complete	0		09MAR09	0		24OCT07	-271	-271	Complete Building 333 Demolition												
ADA0755F	Transition/Final	20	10MAR09	13APR09	87,518	25OCT07	17JAN08	-271	-247	Transition/Final Closure - 333 (incl WS 333-WSTF)												
ADA0756 D4 Building - 335																						
ADA0756A	Plan &	20	03JAN12*	06FEB12	36,045	09FEB12	15MAR12	22	22	Plan & Document - 335												
ADA0756B	Deact & Decom	32	17JAN12	13MAR12	354,551	27FEB12	19APR12	22	22	Deact & Decom - 335												
ADA0756C	Demolition	8	14MAR12	27MAR12	57,381	23APR12	03MAY12	22	22	Demolition Above Grade - 335												
ADA0756D	Demolition	12	28MAR12	17APR12	8,731	07MAY12	24MAY12	22	22	Demolition Below Grade - 335												
ADA0756E	Loadout - 335	16	04APR12	01MAY12	23,988	14MAY12	11JUN12	22	22	Loadout - 335												
ADA0756F	Transition/Final	12	02MAY12	22MAY12	14,749	12JUN12	02JUL12	22	22	Transition/Final Closure - 335												
ADA0758 D4 Building - 337																						
ADA0758A	Plan &	50	11DEC06A	08MAY07	120,867	06FEB12*	03APR12	1,028	979	Plan & Document - 337												
ADA0758B	Deact & Decom	118	02JAN08*	30JUL08	419,197	29FEB12	31MAY12	831	766	Deact & Decom - 337												

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Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt chart area with activity bars and labels																
ADA0758C	Demolition	30	31JUL08	23SEP08	193,024	04JUN12	25JUN12	766	749	■ Demolition Above Grade - 337																
ADA0758D	Demolition	20	24SEP08	28OCT08	29,371	26JUN12	31JUL12	749	749	■ Demolition Below Grade - 337																
ADA0758E	Loadout - 337	27	06OCT08	19NOV08	80,694	09JUL12	22AUG12	749	749	■ Loadout - 337																
ADA0758F	Transition/Final	15	20NOV08	18DEC08	49,613	23AUG12	27SEP12	749	754	■ Transition/Final Closure - 337																
ADA0759 D4 Building - 337B																										
ADA0759A	Plan &	33	02JAN07A	03DEC07	73,365	06FEB12	03APR12	1,018	865	■ Plan & Document - 337B																
ADA0759B	Deact & Decom	53	24OCT11*	31JAN12	830,848	29FEB12	31MAY12	68	68	■ Deact & Decom - 337B																
ADA0759C	Demolition	30	01FEB12	26MAR12	553,515	04JUN12	25JUN12	68	51	■ Demolition Above Grade - 337B																
ADA0759D	Demolition	20	27MAR12	30APR12	96,250	26JUN12	31JUL12	51	51	■ Demolition Below Grade - 337B																
ADA0759E	Loadout - 337B	27	05APR12	22MAY12	259,880	09JUL12	22AUG12	51	51	■ Loadout - 337B																
ADA0759F	Transition/Final	20	23MAY12	27JUN12	39,952	23AUG12	27SEP12	51	51	■ Transition/Final Closure - 337B																
ADA0760 D4 Building - 337-BA																										
ADA0760B	Deact & Decom	15	24APR12	17MAY12	41,914	29FEB12	31MAY12	-31	7	■ Deact & Decom - 337-BA																
ADA0760A	Plan &	33	02APR12*	29MAY12	1,934	06FEB12	03APR12	-31	-31	■ Plan & Document - 337-BA																
ADA0760C	Demolition	13	30MAY12	20JUN12	14,684	04JUN12	25JUN12	2	2	■ Demolition Above Grade - 337-BA																
ADA0760D	Demolition	5	21JUN12	28JUN12	579	26JUN12	31JUL12	2	17	■ Demolition Below Grade - 337-BA																
ADA0760E	Loadout -	10	09JUL12	24JUL12	4,573	09JUL12	22AUG12	0	17	■ Loadout - 337-BA																
ADA0760F	Transition/Final	20	25JUL12	28AUG12	2,205	23AUG12	27SEP12	17	17	■ Transition/Final Closure - 337-BA																
ADA0761 D4 Building - 338																										
ADA0761A	Plan &	25	03JAN12*	14FEB12	62,737	09FEB12	26MAR12	22	22	■ Plan & Document - 338																
ADA0761B	Deact & Decom	39	19JAN12	28MAR12	620,016	29FEB12	07MAY12	22	22	■ Deact & Decom - 338																
ADA0761C	Demolition	10	29MAR12	16APR12	100,367	08MAY12	23MAY12	22	22	■ Demolition Above Grade - 338																
ADA0761D	Demolition	15	17APR12	10MAY12	15,272	24MAY12	20JUN12	22	22	■ Demolition Below Grade - 338																
ADA0761E	Loadout - 338	20	25APR12	30MAY12	41,958	05JUN12	10JUL12	22	22	■ Loadout - 338																
ADA0761F	Transition/Final	15	31MAY12	26JUN12	25,797	11JUL12	06AUG12	22	22	■ Transition/Final Closure - 338																
ADA0764 D4 Building - 340A																										
ADA0764A	Plan &	25	01SEP10*	14OCT10	29,173	04OCT10	15NOV10	17	17	■ Plan & Document - 340A																
ADA0764B	Deact & Decom	30	21SEP10	10NOV10	354,771	20OCT10	05JAN11	17	27	■ Deact & Decom - 340A																
ADA0764C	Demolition	10	11NOV10	01DEC10	32,684	06JAN11	24JAN11	27	27	■ Demolition Above Grade - 340A																
ADA0764D	Demolition	15	02DEC10	03JAN11	3,082	25JAN11	17FEB11	27	27	■ Demolition Below Grade - 340A																
ADA0764E	Loadout - 340A	20	13DEC10	19JAN11	64,237	02FEB11	09MAR11	27	27	■ Loadout - 340A																
ADA0764F	Transition/Final	15	20JAN11	15FEB11	3,223	10MAR11	05APR11	27	27	■ Transition/Final Closure - 340A																
ADA0765 D4 Building - 340B																										
ADA0765A	Plan &	25	01SEP10	14OCT10	21,470	04OCT10	15NOV10	17	17	■ Plan & Document - 340B																
ADA0765B	Deact & Decom	40	21SEP10	01DEC10	349,744	20OCT10	05JAN11	17	17	■ Deact & Decom - 340B																





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Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt Chart Area																
ADA0771C	Demolition	10	15MAY07	31MAY07	2,944	22FEB11	17MAR11	752	757	Demolition Above Grade - 3503A																
ADA0771D	Demolition	10	04JUN07	19JUN07	617	21MAR11	26APR11	757	769	Demolition Below Grade - 3503A																
ADA0771E	Loadout -	10	28JUN07	17JUL07	636	31MAR11	23MAY11	749	769	Loadout - 3503A																
ADA0771F	Transition/Final	15	18JUL07	13AUG07	343	24MAY11	30JUN11	769	776	Transition/Final Closure - 3503A																
ADA0772 D4 Building - 3506A																										
ADA0772A	Plan &	8	26MAR09*	08APR09	52	08OCT08	21OCT08	-91	-91	Plan & Document - 3506A																
ADA0772B	Deact & Decom	12	01APR09	21APR09	0	14OCT08	03NOV08	-91	-91	Deact & Decom - 3506A																
ADA0772C	Demolition	3	22APR09	27APR09	0	04NOV08	06NOV08	-91	-91	Demolition Above Grade - 3506A																
ADA0772D	Demolition	5	28APR09	05MAY09	766	10NOV08	17NOV08	-91	-91	Demolition Below Grade - 3506A																
ADA0772E	Loadout -	6	30APR09	11MAY09	1,209	12NOV08	20NOV08	-91	-91	Loadout - 3506A																
ADA0772F	Transition/Final	5	12MAY09	19MAY09	2,916	24NOV08	03DEC08	-91	-91	Transition/Final Closure - 3506A																
ADA0773 D4 Building - 3506B																										
ADA0773F	Transition/Final	5	26MAR07	02APR07	3,191	24NOV08	03DEC08	336	336	Transition/Final Closure - 3506B																
ADA0773A	Plan &	8	26MAR09*	08APR09	98	08OCT08	21OCT08	-91	-91	Plan & Document - 3506B																
ADA0773B	Deact & Decom	12	01APR09	21APR09	0	14OCT08	03NOV08	-91	-91	Deact & Decom - 3506B																
ADA0773C	Demolition	3	22APR09	27APR09	0	04NOV08	06NOV08	-91	-91	Demolition Above Grade - 3506B																
ADA0773D	Demolition	5	28APR09	05MAY09	838	10NOV08	17NOV08	-91	-91	Demolition Below Grade - 3506B																
ADA0773E	Loadout -	6	30APR09	11MAY09	1,324	12NOV08	20NOV08	-91	-91	Loadout - 3506B																
ADA0788 D4 Building - 3621BC																										
ADA0788A	Plan &	33	17OCT11*	14DEC11	6,046	03OCT11	30NOV11	-8	-8	Plan & Document - 3621BC																
ADA0788B	Deact & Decom	53	08NOV11	15FEB12	96,576	25OCT11	01FEB12	-8	-8	Deact & Decom - 3621BC																
ADA0788C	Demolition	13	16FEB12	12MAR12	10,268	02FEB12	27FEB12	-8	-8	Demolition Above Grade - 3621BC																
ADA0788D	Demolition	20	13MAR12	16APR12	1,796	28FEB12	02APR12	-8	-8	Demolition Below Grade - 3621BC																
ADA0788E	Loadout -	27	22MAR12	08MAY12	3,049	08MAR12	24APR12	-8	-8	Loadout - 3621BC																
ADA0788F	Transition/Final	20	09MAY12	13JUN12	3,419	25APR12	30MAY12	-8	-8	Transition/Final Closure - 3621BC																
ADA0789 D4 Building - 3621D																										
ADA0789A	Plan &	30	17OCT11*	08DEC11	9,026	03OCT11	22NOV11	-8	-8	Plan & Document - 3621D																
ADA0789B	Deact & Decom	48	07NOV11	06FEB12	142,676	24OCT11	23JAN12	-8	-8	Deact & Decom - 3621D																
ADA0789C	Demolition	12	07FEB12	28FEB12	15,168	24JAN12	13FEB12	-8	-8	Demolition Above Grade - 3621D																
ADA0789D	Demolition	18	29FEB12	29MAR12	2,653	14FEB12	15MAR12	-8	-8	Demolition Below Grade - 3621D																
ADA0789E	Loadout -	24	12MAR12	19APR12	4,505	27FEB12	05APR12	-8	-8	Loadout - 3621D																
ADA0789F	Transition/Final	18	23APR12	22MAY12	5,050	09APR12	08MAY12	-8	-8	Transition/Final Closure - 3621D																
ADA0791 D4 Building - 366A (Also WS 300-6 and 300-123)																										
ADA0791A	Plan &	17	03OCT11*	31OCT11	0	17OCT11	14NOV11	8	8	Plan & Document - 366A (incl WS 300-6 a																
ADA0791B	Deact & Decom	27	13OCT11	01DEC11	0	27OCT11	15DEC11	8	8	Deact & Decom - 366A (incl WS 300-6 a																

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										Gantt Chart Data												
ADA0791C	Demolition	7	05DEC11	14DEC11	9,069	19DEC11	03JAN12	8	8	Demolition Above Grade - 366A (incl WS 300-61a)												
ADA0791D	Demolition	10	15DEC11	05JAN12	0	04JAN12	19JAN12	8	8	Demolition Below Grade - 366A (incl WS 300-61a)												
ADA0791E	Loadout - 366A	13	22DEC11	18JAN12	251	11JAN12	01FEB12	8	8	Loadout - 366A (includes Waste Sites 300-61a)												
ADA0791F	Transition/Final	10	19JAN12	06FEB12	0	02FEB12	21FEB12	8	8	Transition/Final Closure - 366A (incl WS 300-61a)												
ADA0793 D4 Building - 3701U																						
ADA0793A	Plan &	8	17OCT11	27OCT11	0	03OCT11	13OCT11	-8	-8	Plan & Document - 3701U												
ADA0793B	Deact & Decom	12	20OCT11	09NOV11	0	06OCT11	26OCT11	-8	-8	Deact & Decom - 3701U												
ADA0793C	Demolition	3	10NOV11	15NOV11	0	27OCT11	01NOV11	-8	-8	Demolition Above Grade - 3701U												
ADA0793D	Demolition	5	16NOV11	28NOV11	1,883	02NOV11	09NOV11	-8	-8	Demolition Below Grade - 3701U												
ADA0793E	Loadout -	6	21NOV11	01DEC11	639	07NOV11	15NOV11	-8	-8	Loadout - 3701U												
ADA0793F	Transition/Final	5	05DEC11	12DEC11	3,584	16NOV11	28NOV11	-8	-8	Transition/Final Closure - 3701U												
ADA0796 D4 Building - 3705																						
ADA0796B	Deact & Decom	30	03MAY06A	12JUN06A	449,834	24MAY10	22JUL10	810	822	Deact & Decom - 3705												
ADA0796A	Plan &	21	17APR06A	19JUN06A	46,549	10MAY10	15JUN10	812	797	Plan & Document - 3705												
ADA0796C	Demolition	7	19JUN06A	22JUN06A	75,724	26JUL10	05AUG10	819	823	Demolition Above Grade - 3705												
ADA0796D	Demolition	1	26JUN06A	29JUN06A	0	09AUG10	30AUG10	823	832	Demolition Below Grade - 3705												
ADA0796E	Loadout - 3705	1	26JUN06A	29JUN06A	14,203	16AUG10	14SEP10	827	840	Loadout - 3705												
ADA0796F	Transition/Final	13	07SEP10*	28SEP10	1,368	15SEP10	06OCT10	5	5	Transition/Final Closure - 3705												
ADA0797 D4 Building - 3705-BA																						
ADA0797B	Deact & Decom	10	01DEC10	16DEC10	12,253	24MAY10	22JUL10	-105	-81	Deact & Decom - 3705-BA												
ADA0797A	Plan &	21	15NOV10*	27DEC10	380	10MAY10	15JUN10	-105	-105	Plan & Document - 3705-BA												
ADA0797C	Demolition	8	28DEC10	11JAN11	4,283	26JUL10	05AUG10	-84	-84	Demolition Above Grade - 3705-BA												
ADA0797D	Demolition	4	12JAN11	18JAN11	169	09AUG10	30AUG10	-84	-75	Demolition Below Grade - 3705-BA												
ADA0797E	Loadout -	4	26JAN11	01FEB11	1,334	16AUG10	14SEP10	-88	-75	Loadout - 3705-BA												
ADA0797F	Transition/Final	13	02FEB11	24FEB11	643	15SEP10	06OCT10	-75	-75	Transition/Final Closure - 3705-BA												
ADA0798 D4 Building - 3706																						
ADA0798B	Deact & Decom	20	11OCT06A	29MAR07	2,125,662	01NOV06	16AUG07	12	78	Deact & Decom - 3706												
ADA0798A	Plan &	193	03OCT05A	10APR07	263,185	01AUG06*	31OCT06	165	-86	Plan & Document - 3706												
ADA0798C	Demolition	12	11APR07	01MAY07	297,883	20AUG07	13SEP07	72	75	Demolition Above Grade - 3706												
ADA0798M	Complete	0		01MAY07	0		13SEP07	75	75	Complete Building 3706 Above Grade Demolition												
ADA0798D	Demolition	15	05MAY08*	29MAY08	328,926	17SEP07	23OCT07	-126	-119	Demolition Below Grade - 3706												
ADA0798E	Loadout - 3706	30	05MAY08	25JUN08	54,090	27SEP07	19NOV07	-119	-119	Loadout - 3706												
ADA0798F	Transition/Final	15	26JUN08	23JUL08	7,649	20NOV07	03JAN08	-119	-112	Transition/Final Closure - 3706												
ADA07A1 D4 Building - 3706A																						
ADA07A1A	Plan &	30	02FEB06A	15MAR07A	10,906	01AUG06*	31OCT06	99	-72	Plan & Document - 3706A												

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Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year																		
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16							
ADA07A1B	Deact & Decom	18	05FEB07A	29MAR07	165,222	03MAY07	16AUG07	50	78																			
ADA07A1C	Demolition	8	18APR07	01MAY07	18,938	20AUG07	13SEP07	68	75																			
ADA07A1D	Demolition	22	05MAY08*	11JUN08	3,183	17SEP07	23OCT07	-126	-126																			
ADA07A1E	Loadout -	30	15MAY08	09JUL08	2,251	27SEP07	19NOV07	-126	-126																			
ADA07A1F	Transition/Final	15	10JUL08	05AUG08	3,329	20NOV07	03JAN08	-126	-119																			
ADA07A2 D4 Building - 3706-BA																												
ADA07A2A	Plan &	10	04APR11*	19APR11	366	10MAY10	10AUG10	-179	-137																			
ADA07A2B	Deact & Decom	5	28APR11	05MAY11	30,934	07JUN10	20SEP10	-179	-125																			
ADA07A2C	Demolition	1	09MAY11	09MAY11	10,825	21SEP10	14OCT10	-125	-111																			
ADA07A2D	Demolition	1	10MAY11	10MAY11	427	18OCT10	23NOV10	-111	-90																			
ADA07A2E	Loadout -	1	07JUN11	07JUN11	3,371	28OCT10	27DEC10	-119	-90																			
ADA07A2F	Transition/Final	10	08JUN11	23JUN11	1,626	28DEC10	03FEB11	-90	-78																			
ADA07A3 D4 Building - 3707D																												
ADA07A3B	Deact & Decom	45	26JAN06A	20MAR06A	100,013	18JUL11	31AUG11	1,093	1,091																			
ADA07A3A	Plan &	86	17OCT05A	23MAR06A	28,732	05JUL11*	02AUG11	1,140	1,071																			
ADA07A3C	Demolition	6	20MAR06A	23MAR06A	46,052	01SEP11	14SEP11	1,092	1,095																			
ADA07A3D	Demolition	10	14MAY08*	02JUN08	7,007	15SEP11	03OCT11	667	667																			
ADA07A3E	Loadout -	1	20MAR06A	12JUN08	19,252	21SEP11	13OCT11	1,102	667																			
ADA07A3F	Transition/Final	20	07JUL08*	07AUG08	11,837	17OCT11	01NOV11	656	646																			
ADA07A6 D4 Building - 3707H																												
ADA07A6A	Plan &	17	02OCT06A	12OCT06A	8,012	05JUL11	02AUG11	949	958																			
ADA07A6B	Deact & Decom	27	09OCT06A	18OCT06A	27,914	18JUL11	31AUG11	952	972																			
ADA07A6C	Demolition	10	26MAR07	10APR07	15,040	01SEP11	14SEP11	889	886																			
ADA07A6D	Demolition	10	11APR11*	26APR11	2,528	15SEP11	03OCT11	88	88																			
ADA07A6E	Loadout -	10	21APR11	09MAY11	1,788	22SEP11	13OCT11	85	88																			
ADA07A6F	Transition/Final	10	10MAY11*	25MAY11	2,644	17OCT11	01NOV11	88	88																			
ADA07A7 D4 Building - 3708																												
ADA07A7A	Plan &	21	10APR06A	23MAY06A	27,025	10MAY10*	15JUN10	816	811																			
ADA07A7B	Deact & Decom	14	22MAY06A	06JUL06A	440,256	24MAY10	22JUL10	800	808																			
ADA07A7C	Demolition	1	06JUL06A	11JUL06A	50,471	26JUL10	05AUG10	809	814																			
ADA07A7D	Demolition	1	09AUG06A	10AUG06A	8,482	09AUG10	30AUG10	798	809																			
ADA07A7E	Loadout - 3708	1	01AUG06A	10AUG06A	6,000	16AUG10	14SEP10	807	817																			
ADA07A7F	Transition/Final	13	07SEP10*	28SEP10	8,872	15SEP10	06OCT10	5	5																			
ADA07A8 D4 Building - 3709																												
ADA07A8B	Deact & Decom	15	15OCT07	07NOV07	96,151	18DEC08	19FEB09	236	254																			

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Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16											
										Gantt Chart Area											
ADA07B6A	Plan &	23	05JAN06A	14FEB06A	21,590	05JUL11	02AUG11	1,098	1,092	■ Plan & Document - 3715											
ADA07B6C	Demolition	4	16FEB06A	23FEB06A	34,363	01SEP11	14SEP11	1,108	1,111	■ Demolition Above Grade - 3715											
ADA07B6D	Demolition	10	01OCT07*	16OCT07	5,229	15SEP11	03OCT11	791	791	■ Demolition Below Grade - 3715											
ADA07B6E	Loadout - 3715	1	21FEB06A	29OCT07	14,365	21SEP11	13OCT11	1,117	791	■ Loadout - 3715											
ADA07B6F	Transition/Final	20	30OCT07	05DEC07	8,832	17OCT11	01NOV11	791	781	■ Transition/Final Closure - 3715											
ADA07B7 D4 Building - 3716																					
ADA07B7A	Plan &	18	01DEC05A	15DEC05A	21,470	01DEC05*	05JAN06	0	9	■ Plan & Document - 3716											
ADA07B7B	Deact & Decom	125	05DEC05A	15DEC05A	74,437	14DEC05	31JUL06	6	123	■ Deact & Decom - 3716											
ADA07B7C	Demolition	7	03JAN06A	05JAN06A	40,106	01AUG06	10AUG06	117	121	■ Demolition Above Grade - 3716											
ADA07B7D	Demolition	10	21JUL08*	05AUG08	6,740	14AUG06	30AUG06	-386	-385	■ Demolition Below Grade - 3716											
ADA07B7E	Loadout - 3716	14	16JAN06A	18AUG08	4,768	21AUG06	13SEP06	121	-385	■ Loadout - 3716											
ADA07B7F	Transition/Final	20	19AUG08	23SEP08	7,050	14SEP06	03OCT06	-385	-394	■ Transition/Final Closure - 3716											
ADA07B8 D4 Building - 3717																					
ADA07B8A	Plan &	21	10APR06A	08JUN06A	32,381	10MAY10	15JUN10	816	802	■ Plan & Document - 3717											
ADA07B8B	Deact & Decom	30	01MAY06A	08JUN06A	112,606	24MAY10	22JUL10	812	823	■ Deact & Decom - 3717											
ADA07B8C	Demolition	1	28JUN06A	28JUN06A	51,851	26JUL10	05AUG10	813	820	■ Demolition Above Grade - 3717											
ADA07B8D	Demolition	1	03JUL06A	06JUL06A	7,890	09AUG10	30AUG10	819	829	■ Demolition Below Grade - 3717											
ADA07B8E	Loadout - 3717	1	24JUL06A	01AUG06A	21,676	16AUG10	14SEP10	812	823	■ Loadout - 3717											
ADA07B8F	Transition/Final	13	07SEP10*	28SEP10	13,327	15SEP10	06OCT10	5	5	■ Transition/Final Closure - 3717											
ADA07B9 D4 Building - 3717B																					
ADA07B9A	Plan &	21	03APR06A	08JUN06A	73,642	10MAY10	15JUN10	820	802	■ Plan & Document - 3717B											
ADA07B9B	Deact & Decom	30	03APR06A	08JUN06A	1,183,495	24MAY10	22JUL10	828	823	■ Deact & Decom - 3717B											
ADA07B9C	Demolition	1	27JUN06A	28JUN06A	119,523	26JUL10	05AUG10	814	820	■ Demolition Above Grade - 3717B											
ADA07B9D	Demolition	1	27JUN06A	28JUN06A	0	09AUG10	30AUG10	822	833	■ Demolition Below Grade - 3717B											
ADA07B9E	Loadout -	1	24JUL06A	01AUG06A	22,417	16AUG10	14SEP10	812	823	■ Loadout - 3717B											
ADA07B9F	Transition/Final	13	07SEP10*	28SEP10	2,159	15SEP10	06OCT10	5	5	■ Transition/Final Closure - 3717B											
ADA07C1 D4 Building - 3717C																					
ADA07C1A	Plan &	50	03OCT11*	04JAN12	7,887	01MAY12*	30JUL12	115	115	■ Plan & Document - 3717C											
ADA07C1B	Deact & Decom	40	07NOV11	23JAN12	22,934	06JUN12	25OCT12	115	155	■ Deact & Decom - 3717C											
ADA07C1C	Demolition	20	24JAN12	28FEB12	12,977	29OCT12	04DEC12	155	155	■ Demolition Above Grade - 3717C											
ADA07C1D	Demolition	30	29FEB12	19APR12	2,270	05DEC12	30JAN13	155	155	■ Demolition Below Grade - 3717C											
ADA07C1E	Loadout -	20	23APR12	24MAY12	3,854	26DEC12	07MAR13	135	155	■ Loadout - 3717C											
ADA07C1F	Transition/Final	30	29MAY12	19JUL12	4,321	11MAR13	30APR13	155	155	■ Transition/Final Closure - 3717C											
ADA07C2 D4 Building - 3718																					
ADA07C2A	Plan &	25	03OCT11*	14NOV11	12,576	28SEP10*	09NOV10	-202	-202	■ Plan & Document - 3718											





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										Gantt Chart Data															
ADA07D4B	Deact & Decom	5	16OCT06A	21MAR07A	5,193,135	02JUL07*	30SEP08	141	307	■ Deact & Decom - 3720															
ADA07D4C	Demolition	64	26MAR07	24SEP07	291,372	01OCT08	30OCT08	306	222	■ Demolition Above Grade - 3720															
ADA07D4D	Demolition	27	25SEP07	08NOV07	0	03NOV08	22DEC08	222	222	■ Demolition Below Grade - 3720															
ADA07D4E	Loadout - 3720	93	28JUN07	13DEC07	54,649	17NOV08	27JAN09	278	222	■ Loadout - 3720															
ADA07D4M	Complete	0		13DEC07	0		27JAN09	222	222	◆ Complete Building 3720 Demolition															
ADA07D4F	Transition/Final	15	17DEC07	15JAN08	5,263	28JAN09	17MAR09	222	234	■ Transition/Final Closure - 3720															
ADA07D5 D4 Building - 3720-BA																									
ADA07D5B	Deact & Decom	229	01MAR07A	21MAR07A	37,988	25AUG08	03DEC08	298	342	■ Deact & Decom - 3720-BA															
ADA07D5A	Plan &	254	01MAR07A	30MAY07	1,709	30JUL08	30SEP08	284	268	■ Plan & Document - 3720-BA															
ADA07D5C	Demolition	5	31MAY07	07JUN07	13,272	04DEC08	31DEC08	303	312	■ Demolition Above Grade - 3720-BA															
ADA07D5D	Demolition	5	11JUN07	18JUN07	524	05JAN09	09FEB09	312	328	■ Demolition Below Grade - 3720-BA															
ADA07D5E	Loadout -	5	05JUL07	12JUL07	4,134	15JAN09	05MAR09	305	328	■ Loadout - 3720-BA															
ADA07D5F	Transition/Final	21	16JUL07	20AUG07	1,993	09MAR09	13APR09	328	328	■ Transition/Final Closure - 3720-BA															
ADA07D6 D4 Building - 3721																									
ADA07D6A	Plan &	20	01NOV11*	07DEC11	725	01MAY12	22MAY12	98	91	■ Plan & Document - 3721															
ADA07D6B	Deact & Decom	20	09NOV11	15DEC11	5,675	09MAY12	13JUN12	98	98	■ Deact & Decom - 3721															
ADA07D6C	Demolition	5	19DEC11	28DEC11	5,506	14JUN12	21JUN12	98	98	■ Demolition Above Grade - 3721															
ADA07D6D	Demolition	8	29DEC11	12JAN12	217	25JUN12	09JUL12	98	98	■ Demolition Below Grade - 3721															
ADA07D6E	Loadout - 3721	10	05JAN12	23JAN12	1,715	28JUN12	17JUL12	98	98	■ Loadout - 3721															
ADA07D6F	Transition/Final	8	24JAN12	06FEB12	827	18JUL12	31JUL12	98	98	■ Transition/Final Closure - 3721															
ADA07D7 D4 Building - 3722																									
ADA07D7B	Deact & Decom	26	09JAN06A	02FEB06A	161,871	20OCT10	07DEC10	958	968	■ Deact & Decom - 3722															
ADA07D7A	Plan &	26	27DEC05A	09FEB06A	16,630	07OCT10	03NOV10	957	947	■ Plan & Document - 3722															
ADA07D7C	Demolition	12	09FEB06A	14FEB06A	28,691	08DEC10	20DEC10	965	969	■ Demolition Above Grade - 3722															
ADA07D7D	Demolition	10	30AUG07*	18SEP07	0	21DEC10	11JAN11	660	660	■ Demolition Below Grade - 3722															
ADA07D7E	Loadout - 3722	1	14FEB06A	01OCT07	8,364	03JAN11	24JAN11	974	660	■ Loadout - 3722															
ADA07D7F	Transition/Final	20	02OCT07	05NOV07	9,377	25JAN11	09FEB11	660	650	■ Transition/Final Closure - 3722															
ADA07D9 D4 Building - 3728																									
ADA07D9A	Plan &	17	04JUN12*	02JUL12	21,470	31MAY12	28JUN12	-1	-1	■ Plan & Document - 3728															
ADA07D9B	Deact & Decom	20	14JUN12	19JUL12	212,113	13JUN12	31JUL12	-1	6	■ Deact & Decom - 3728															
ADA07D9C	Demolition	7	23JUL12	01AUG12	40,106	01AUG12	13AUG12	6	6	■ Demolition Above Grade - 3728															
ADA07D9D	Demolition	10	02AUG12	20AUG12	6,740	14AUG12	29AUG12	6	6	■ Demolition Below Grade - 3728															
ADA07D9E	Loadout - 3728	14	08AUG12	30AUG12	4,768	20AUG12	12SEP12	6	6	■ Loadout - 3728															
ADA07D9F	Transition/Final	10	04SEP12	19SEP12	7,050	13SEP12	01OCT12	6	6	■ Transition/Final Closure - 3728															







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										Gantt Chart Area												
ADA07F3F	Transition/Final	5	26MAR12	02APR12	10,052	18SEP12	25SEP12	98	98	Transition/Final Closure - 3763												
ADA07F5 D4 Building - 3766																						
ADA07F5A	Plan &	20	07FEB12	13MAR12	10,464	01AUG12	22AUG12	98	91	Plan & Document - 3766												
ADA07F5B	Deact & Decom	21	15FEB12	22MAR12	31,455	09AUG12	17SEP12	98	98	Deact & Decom - 3766												
ADA07F5C	Demolition	5	26MAR12	02APR12	17,798	18SEP12	25SEP12	98	98	Demolition Above Grade - 3766												
ADA07F5D	Demolition	8	03APR12	16APR12	3,113	26SEP12	09OCT12	98	98	Demolition Below Grade - 3766												
ADA07F5E	Loadout - 3766	10	09APR12	24APR12	5,286	02OCT12	17OCT12	98	98	Loadout - 3766												
ADA07F5F	Transition/Final	8	25APR12	08MAY12	5,926	18OCT12	31OCT12	98	98	Transition/Final Closure - 3766												
ADA07F8 D4 Building - 377																						
ADA07F8B	Deact & Decom	39	10APR06A	11MAY06A	239,362	21SEP06	30NOV06	92	111	Deact & Decom - 377												
ADA07F8A	Plan &	143	04OCT05A	15MAY06A	24,006	05SEP06*	16OCT06	183	85	Plan & Document - 377												
ADA07F8C	Demolition	10	11MAY06A	01JUN06A	45,245	04DEC06	19DEC06	112	110	Demolition Above Grade - 377												
ADA07F8D	Demolition	15	11MAY06A	20JUL06A	7,604	20DEC06	18JAN07	122	98	Demolition Below Grade - 377												
ADA07F8E	Loadout - 377	19	15MAY06A	02AUG06A	6,127	04JAN07	06FEB07	127	101	Loadout - 377												
ADA07F8M	Complete	0		23MAR07A	0		06FEB07	-25	-25	Complete 118-K-1 Loadout and Bldg 377 Demolition												
ADA07F8F	Transition/Final	14	04SEP07*	26SEP07	7,953	07FEB07	06MAR07	-115	-114	Transition/Final Closure - 377												
ADA07G1 D4 Building - 3790																						
ADA07G1A	Plan &	30	01FEB11*	24MAR11	73,112	22SEP11	14NOV11	130	130	Plan & Document - 3790												
ADA07G1B	Deact & Decom	48	23FEB11	17MAY11	253,430	13OCT11	12JAN12	130	130	Deact & Decom - 3790												
ADA07G1C	Demolition	12	18MAY11	08JUN11	116,695	16JAN12	02FEB12	130	130	Demolition Above Grade - 3790												
ADA07G1D	Demolition	18	09JUN11	12JUL11	17,756	06FEB12	07MAR12	130	130	Demolition Below Grade - 3790												
ADA07G1E	Loadout - 3790	24	21JUN11	02AUG11	48,784	15FEB12	28MAR12	130	130	Loadout - 3790												
ADA07G1F	Transition/Final	18	03AUG11	01SEP11	29,994	29MAR12	30APR12	130	130	Transition/Final Closure - 3790												
ADA07G6 D4 Building - 384 (WS 300-222,300-223,UPR-300-42)																						
ADA07G6A	Plan &	90	06NOV06A	24APR07	120,390	04OCT10*	08DEC10	780	725	Plan & Document - 384 (incl Wastes Sites 300-222)												
ADA07G6B	Deact & Decom	90	23JAN07A	31MAY07	2,968,064	28OCT10	17FEB11	755	742	Deact & Decom - 384 (incl Wastes Sites 300-222)												
ADA07G6C	Demolition	65	04JUN07	27SEP07	454,693	22FEB11	17MAR11	742	691	Demolition Above Grade - 384 (incl WS 300-222)												
ADA07G6D	Demolition	15	10JUL08*	05AUG08	12,644	21MAR11	26APR11	536	543	Demolition Below Grade - 384 (incl WS 300-222)												
ADA07G6E	Loadout - 384	59	19MAY08	02SEP08	199,310	31MAR11	23MAY11	572	543	Loadout - 384 (includes Wastes Sites 300-222)												
ADA07G6EM	Complete	0		02SEP08	0		23MAY11	543	543	Complete Building 384 Demolition												
ADA07G6F	Transition/Final	15	03SEP08	29SEP08	44,601	24MAY11	30JUN11	543	550	Transition/Final Closure - 384 (incl WS 300-222)												
ADA07G9 D4 Building - MO-026																						
ADA07G9A	Plan &	21	03APR06A	23MAY06A	2,654	07DEC09	14JAN10	736	727	Plan & Document - MO-026												
ADA07G9B	Deact & Decom	12	30MAY06A	08JUN06A	0	21DEC09	23FEB10	712	739	Deact & Decom - MO-026												
ADA07G9C	Demolition	8	22JUN06A	22JUN06A	10,276	24FEB10	09MAR10	732	739	Demolition Above Grade - MO-026												



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										Gantt Chart												
ADA07G9D	Demolition	1	22JUN06A	22JUN06A	0	10MAR10	31MAR10	740	752	Demolition Below Grade - MO-026												
ADA07G9E	Loadout -	1	26JUN06A	28JUN06A	0	17MAR10	14APR10	743	757	Loadout - MO-026												
ADA07G9F	Transition/Final	13	04SEP07*	25SEP07	939	15APR10	06MAY10	522	522	Transition/Final Closure - MO-026												
ADA07H2 D4 Building - MO-052																						
ADA07H2A	Plan &	16	10OCT05A	03NOV05A	3,246	03JAN06*	31JAN06	44	45	Plan & Document - MO-052												
ADA07H2B	Deact & Decom	28	24OCT05A	10NOV05A	0	16JAN06	06MAR06	43	59	Deact & Decom - MO-052												
ADA07H2C	Demolition	5	24OCT05A	10NOV05A	13,913	07MAR06	16MAR06	71	66	Demolition Above Grade - MO-052												
ADA07H2D	Demolition	10	24OCT05A	10NOV05A	0	20MAR06	04APR06	78	76	Demolition Below Grade - MO-052												
ADA07H2E	Loadout -	14	01NOV05A	10NOV05A	0	23MAR06	17APR06	76	83	Loadout - MO-052												
ADA07H2F	Transition/Final	20	02APR08*	06MAY08	1,272	18APR06	03MAY06	-391	-401	Transition/Final Closure - MO-052												
ADA07J2 D4 Building - MO-270																						
ADA07J2A	Plan &	13	07FEB12*	29FEB12	3,063	01AUG12	22AUG12	98	98	Plan & Document - MO-270												
ADA07J2B	Deact & Decom	21	15FEB12	22MAR12	0	09AUG12	17SEP12	98	98	Deact & Decom - MO-270												
ADA07J2C	Demolition	5	26MAR12	02APR12	13,512	18SEP12	25SEP12	98	98	Demolition Above Grade - MO-270												
ADA07J2D	Demolition	8	03APR12	16APR12	0	26SEP12	09OCT12	98	98	Demolition Below Grade - MO-270												
ADA07J2E	Loadout -	10	09APR12	24APR12	0	02OCT12	17OCT12	98	98	Loadout - MO-270												
ADA07J2F	Transition/Final	8	25APR12	08MAY12	1,235	18OCT12	31OCT12	98	98	Transition/Final Closure - MO-270												
ADA07J3 D4 Building - MO-271																						
ADA07J3A	Plan &	13	07FEB12	29FEB12	3,063	01AUG12	22AUG12	98	98	Plan & Document - MO-271												
ADA07J3B	Deact & Decom	21	15FEB12	22MAR12	0	09AUG12	17SEP12	98	98	Deact & Decom - MO-271												
ADA07J3C	Demolition	5	26MAR12	02APR12	13,512	18SEP12	25SEP12	98	98	Demolition Above Grade - MO-271												
ADA07J3D	Demolition	8	03APR12	16APR12	0	26SEP12	09OCT12	98	98	Demolition Below Grade - MO-271												
ADA07J3E	Loadout -	10	09APR12	24APR12	0	02OCT12	17OCT12	98	98	Loadout - MO-271												
ADA07J3F	Transition/Final	8	25APR12	08MAY12	1,235	18OCT12	31OCT12	98	98	Transition/Final Closure - MO-271												
ADA07L1 D4 Building - 308																						
ADA07L1C	Demolition	53	08NOV10	15FEB11	458,700	08NOV10	16FEB11	0	1	Demolition Above Grade - 308												
ADA07L1D	Demolition	81	16FEB11	12JUL11	395,469	17FEB11	13JUL11	1	1	Demolition Below Grade - 308												
ADA07L1E	Loadout - 308	108	06APR11	17OCT11	83,739	07APR11	18OCT11	1	1	Loadout - 308												
ADA07L1M	Complete	0		17OCT11	0		18OCT11	1	1	Complete Demolition of Building 308												
ADA07L1F	Transition/Final	81	18OCT11	15MAR12	77,392	19OCT11	19MAR12	1	1	Transition/Final Closure - 308												
ADA07N1 D4 Building - 326																						
ADA07N1A	Plan &	130	24JUN10	17FEB11	480,579	01OCT09*	26MAY10	-145	-145	Plan & Document - 326												
ADA07N1B	Deact & Decom	399	01FEB11*	29JAN13	11,982,527	10MAY10*	07MAY12	-145	-145	Deact & Decom - 326												
ADA07N1C	Demolition	52	30JAN13	01MAY13	482,213	08MAY12	08AUG12	-145	-145	Demolition Above Grade - 326												
ADA07N1DM	Complete	0		18JUN13	0		04APR13	-41	-41	Complete Building 326 Demolition												

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300 Area Building Retention Evaluation Mitigation Plan

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Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt Chart Area																
ADA07N1E	Loadout - 326	52	19MAR13	18JUN13	110,320	26SEP12	04APR13	-93	-41	Loadout - 326																
ADA07N1F	Transition/Final	66	19JUN13	15OCT13	81,359	08APR13	22AUG13	-41	-29	Transition/Final Closure - 326																
ADA07N2 D4 Building - 326-BA																										
ADA07N2A	Plan &	80	01DEC10	26APR11	1,980	04OCT10*	01MAR11	-32	-32	Plan & Document - 326-BA																
ADA07N2B	Deact & Decom	128	01FEB11*	19SEP11	43,123	01DEC10	21JUL11	-32	-32	Deact & Decom - 326-BA																
ADA07N2C	Demolition	32	20SEP11	14NOV11	15,084	25JUL11	19SEP11	-32	-32	Demolition Above Grade - 326-BA																
ADA07N2D	Demolition	48	15NOV11	14FEB12	595	20SEP11	14DEC11	-32	-32	Demolition Below Grade - 326-BA																
ADA07N2E	Loadout -	64	15DEC11	11APR12	4,698	18OCT11	14FEB12	-32	-32	Loadout - 326-BA																
ADA07N2F	Transition/Final	48	12APR12	09JUL12	2,265	15FEB12	09MAY12	-32	-32	Transition/Final Closure - 326-BA																
ADA07P1 D4 Building - 329																										
ADA07P1A	Plan &	83	30NOV10	28APR11	263,172	30SEP10*	03MAR11	-32	-32	Plan & Document - 329																
ADA07P1B	Deact & Decom	309	01FEB11*	14AUG12	7,237,078	01DEC10	18JUN12	-32	-32	Deact & Decom - 329																
ADA07P1C	Demolition	33	15AUG12	11OCT12	301,246	19JUN12	15AUG12	-32	-32	Demolition Above Grade - 329																
ADA07P1E	Loadout - 329	50	17SEP12	13DEC12	54,994	17SEP12	17JAN13	0	17	Loadout - 329																
ADA07P1M	Complete	0		13DEC12	0		17JAN13	17	17	Complete Building 329 Demolition																
ADA07P1F	Transition/Final	50	17DEC12	19MAR13	50,826	21JAN13	17APR13	17	17	Transition/Final Closure - 329																
ADA07Q3 D4 Building - 331C																										
ADA07Q3A	Plan &	92	01FEB11*	14JUL11	23,232	01JUL10	15DEC10	-115	-115	Plan & Document - 331C																
ADA07Q3B	Deact & Decom	147	07APR11	03JAN12	80,619	08SEP10	02JUN11	-115	-115	Deact & Decom - 331C																
ADA07Q3C	Demolition	37	04JAN12	08MAR12	37,155	06JUN11	09AUG11	-115	-115	Demolition Above Grade - 331C																
ADA07Q3D	Demolition	55	12MAR12	14JUN12	5,654	10AUG11	15NOV11	-115	-115	Demolition Below Grade - 331C																
ADA07Q3E	Loadout - 331C	73	12APR12	21AUG12	15,533	14SEP11	26JAN12	-115	-115	Loadout - 331C																
ADA07Q3F	Transition/Final	55	22AUG12	29NOV12	9,550	30JAN12	03MAY12	-115	-115	Transition/Final Closure - 331C																
ADA07Q4 D4 Building - 331D																										
ADA07Q4A	Plan &	92	01FEB11	14JUL11	4,557	01JUL10	15DEC10	-115	-115	Plan & Document - 331D																
ADA07Q4B	Deact & Decom	147	07APR11	03JAN12	13,037	08SEP10	02JUN11	-115	-115	Deact & Decom - 331D																
ADA07Q4C	Demolition	37	04JAN12	08MAR12	7,576	06JUN11	09AUG11	-115	-115	Demolition Above Grade - 331D																
ADA07Q4D	Demolition	55	12MAR12	14JUN12	1,325	10AUG11	15NOV11	-115	-115	Demolition Below Grade - 331D																
ADA07Q4E	Loadout - 331D	73	12APR12	21AUG12	2,250	14SEP11	26JAN12	-115	-115	Loadout - 331D																
ADA07Q4F	Transition/Final	55	22AUG12	29NOV12	2,522	30JAN12	03MAY12	-115	-115	Transition/Final Closure - 331D																
ADA07Q5 D4 Building - 331G																										
ADA07Q5A	Plan &	92	01FEB11	14JUL11	4,444	01JUL10	15DEC10	-115	-115	Plan & Document - 331G																
ADA07Q5B	Deact & Decom	147	07APR11	03JAN12	41,627	08SEP10	02JUN11	-115	-115	Deact & Decom - 331G																
ADA07Q5C	Demolition	37	04JAN12	08MAR12	7,384	06JUN11	09AUG11	-115	-115	Demolition Above Grade - 331G																
ADA07Q5D	Demolition	55	12MAR12	14JUN12	1,292	10AUG11	15NOV11	-115	-115	Demolition Below Grade - 331G																



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
ADA0801E	Loadout - 311	165	13FEB06A	17JUL07	4,594	27MAY09	08JUN09	657	378	█ Loadout - 311 (includes Waste Sites 311-TK-4)												
ADA0801F	Transition/Final	20	13AUG08*	17SEP08	3,274	09JUN09	16JUN09	163	148	█ Transition/Final Closure - 311 (incl WS 311-TK-4)												
ADA0803 D4 Remaining Facilities - 334TF																						
ADA0803A	Plan &	17	21SEP05A	11OCT05A	1,822	29AUG05	27SEP05	-13	-8	█ Plan & Document - 334TF												
ADA0803B	Deact & Decom	26	19OCT05A	24OCT05A	6,784	12SEP05	25OCT05	-22	1	█ Deact & Decom - 334TF												
ADA0803C	Demolition	7	25OCT05A	26OCT05A	35,433	26OCT05	07NOV05	1	6	█ Demolition Above Grade - 334TF												
ADA0803D	Demolition	10	26MAR07	10APR07	793	08NOV05	28NOV05	-272	-272	█ Demolition Below Grade - 334TF												
ADA0803E	Loadout -	13	07DEC05A	23APR07	17,142	15NOV05	08DEC05	-11	-272	█ Loadout - 334TF												
ADA0803F	Transition/Final	20	25JUN08*	30JUL08	1,284	12DEC05	29DEC05	-507	-517	█ Transition/Final Closure - 334TF												
ADR2501 D4-Non Site Specific Support 300 Area Sites																						
ADR2501A1	D4-300 Area	24	29AUG05A	24OCT05A	447,277	29AUG05	29SEP05	0	-13	█ D4-300 Area Non-Site Specific Support FY05												
ADR2501A2	D4-300 Area	203	23AUG06A	28DEC06A	2,181,211	03OCT05	28SEP06	-178	-48	█ D4-300 Area Non-Site Specific Support FY06												
ADR2501A9	D4-300 Area	143	01OCT12	18JUN13	5,046,431	01OCT12	30APR13	0	-27	█ D4-300 Area Non-Site Specific Support FY12												
RA Field Remediation																						
CMA0302 Confirmatory Sampling Site - 300-2																						
CMA0302A	Work	57	01NOV07*	19FEB08	23,263	06AUG12	31OCT12	949	942	█ Work Instructions - CS Site - 300-2												
CMA0302B	Smpg and	25	20FEB08	02APR08	17,268	01NOV12	18DEC12	942	942	█ Smpg and Analysis - CS Site - 300-2												
CMA0302C	RSVP or RTD	93	03APR08	17SEP08	10,137	19DEC12	27FEB13	942	886	█ RSVP or RTD Report - CS Site - 300-2												
CMA0303 Confirmatory Sampling Site - 300-32 (333 Bldg)																						
CMA0303A	Work	57	16OCT07*	30JAN08	8,199	29AUG05	28NOV05	-426	-433	█ Work Instructions - CS Site - 300-32 (Associated)												
CMA0303B	Smpg and	25	28FEB08	10APR08	17,268	04SEP07	16OCT07	-96	-96	█ Smpg and Analysis - CS Site - 300-32 (Associate)												
CMA0303C	RSVP or RTD	93	22OCT08	13APR09	10,137	17OCT07	20MAR08	-203	-212	█ RSVP or RTD Report - CS Site - 300-32 (Associate)												
CMA0304 Confirmatory Sampling Site - 300-7																						
CMA0304B	Smpg and	26	27MAR06A	20JUN06A	40,121	17MAY06	29JUN06	30	6	█ Smpg and Analysis - CS Site - 300-7												
CMA0304C	RSVP or RTD	39	30MAY06A	26JUL06A	10,137	28JUN06	28NOV06	17	68	█ RSVP or RTD Report - CS Site - 300-7												
CMA0305 Confirmatory Sampling Site - 300-9																						
CMA0305B	Smpg and	28	28MAR06A	20JUN06A	40,121	22MAY06	05JUL06	31	8	█ Smpg and Analysis - CS Site - 300-9												
CMA0305C	RSVP or RTD	39	30MAY06A	05JUL06A	10,137	03JUL06	30NOV06	19	82	█ RSVP or RTD Report - CS Site - 300-9												
CMA0306 Confirmatory Sampling Site - 303-M UOF																						
CMA0306A	Work	57	30OCT07*	13FEB08	15,732	13SEP05	12DEC05	-426	-433	█ Work Instructions - CS Site - 303-M UOF												
CMA0306B	Smpg and	25	14FEB08	31MAR08	40,121	15MAY06	27JUN06	-350	-350	█ Smpg and Analysis - CS Site - 303-M UOF												
CMA0306C	RSVP or RTD	93	01APR08	15SEP08	10,137	06JUL06	05DEC06	-346	-355	█ RSVP or RTD Report - CS Site - 303-M UOF												
CMA0307 Confirmatory Sampling Site - UPR-300-2																						
CMA0307A	Work	57	19NOV07*	05MAR08	15,732	04OCT10*	05JAN11	573	566	█ Work Instructions - CS Site - UPR-300-2												
CMA0307C	RSVP or RTD	93	25APR11	06OCT11	10,137	25APR11	21SEP11	0	-9	█ RSVP or RTD Report - CS Site - UPR-300-2												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt Chart Area																
<b>CMA0308 Confirmatory Sampling Site - 331 LSLDF</b>																										
CMA0308A	Work	34	06DEC05A	19JUN06A	15,732	15MAR06*	11MAY06	53	-20	Work Instructions - CS Site - 331 LSLDF																
CMA0308B	Smpg and	28	18APR06A	11JUN07	17,268	24MAY06	10JUL06	21	-184	Smpg and Analysis - CS Site - 331 LSLDF																
CMA0308C	RSVP or RTD	59	03APR08	17JUL08	10,137	11JUL06	08NOV06	-346	-336	RSVP or RTD Report - CS Site - 331 LSLDF																
<b>CMA0309 Confirmatory Sampling Site - 331 LSLT1</b>																										
CMA0309A	Work	34	29AUG05A	24AUG06A	15,732	01MAR06*	27APR06	99	-66	Work Instructions - CS Site - 331 LSLT1																
<b>CMA0310 Confirmatory Sampling Site - 331 LSLT2</b>																										
CMA0310A	Work	34	06DEC05A	01MAY06A	15,732	15MAR06	11MAY06	53	7	Work Instructions - CS Site - 331 LSLT2																
<b>CMA0311 Confirmatory Sampling Site - 600-276</b>																										
CMA0311A	Work	57	13NOV07*	28FEB08	23,968	01OCT07*	16JAN08	-25	-24	Work Instructions - CS Site - 600-276																
CMA0311B	Smpg and	25	03MAR08	14APR08	25,532	17JAN08	19FEB08	-24	-31	Smpg and Analysis - CS Site - 600-276																
CMA0311C	RSVP or RTD	93	15APR08	29SEP08	10,137	20FEB08	17JUL08	-31	-40	RSVP or RTD Report - CS Site - 600-276																
<b>CMB0501 Remediate Waste Site - 300-39 (Building 309)</b>																										
CMB0501A	Excavation	4	23MAY11	26MAY11	89,022	29FEB12	06MAR12	153	153	Excavation Process - Rem Wst Site - 300-39 (D4 3)																
CMB0501B	Loadout - Rem	4	21JUN11	27JUN11	8,936	28MAR12	03APR12	153	153	Loadout - Rem Wst Site - 300-39 (D4 309)																
CMB0501D	Closeout Smpg	159	28JUN11	12APR12	19,169	04APR12	21JAN13	153	153	Closeout Smpg - Rem Wst Site - 300-39 (D4 309)																
CMB0501C	Backfill - Rem	1	16APR12	16APR12	14,969	22JAN13	22JAN13	153	153	Backfill - Rem Wst Site - 300-39 (D4 309)																
CMB0501E	Revegetation -	1	17APR12	17APR12	1,059	23JAN13	23JAN13	153	153	Revegetation - Rem Wst Site - 300-39 (D4 309)																
<b>CMB0502 Remediate Waste Site - 309-TW-1 (Building 309)</b>																										
CMB0502A	Excavation	19	04OCT10*	03NOV10	111,133	04OCT10*	27OCT10	0	-4	Excavation Process - Rem Wst Site - 309-TW-1																
CMB0502E	Revegetation -	1	04JAN12	04JAN12	1,058	18OCT12	18OCT12	161	161	Revegetation - Rem Wst Site - 309-TW-1 (D4 309)																
<b>CMB0503 Remediate Waste Site - 309-TW-2 (Building 309)</b>																										
CMB0503A	Excavation	9	04OCT10*	18OCT10	111,133	04OCT10*	13OCT10	0	-2	Excavation Process - Rem Wst Site - 309-TW-2																
CMB0503E	Revegetation -	1	04JAN12	04JAN12	1,058	18OCT12	18OCT12	161	161	Revegetation - Rem Wst Site - 309-TW-2 (D4 309)																
<b>CMB0504 Remediate Waste Site - 309-TW-3 (Building 309)</b>																										
CMB0504A	Excavation	9	04OCT10*	18OCT10	111,133	04OCT10*	13OCT10	0	-2	Excavation Process - Rem Wst Site - 309-TW-3																
CMB0504E	Revegetation -	1	04JAN12	04JAN12	1,058	18OCT12	18OCT12	161	161	Revegetation - Rem Wst Site - 309-TW-3 (D4 309)																
<b>CMB0505 Remediate Waste Site - 309-WS-1 (Building 309)</b>																										
CMB0505E	Revegetation -	2	03JAN12	04JAN12	1,058	17OCT12	18OCT12	161	161	Revegetation - Rem Wst Site - 309-WS-1 (D4 309)																
<b>CMB0506 Remediate Waste Site - 309-WS-2 (Building 309)</b>																										
CMB0506E	Revegetation -	1	04JAN12	04JAN12	1,058	18OCT12	18OCT12	161	161	Revegetation - Rem Wst Site - 309-WS-2 (D4 309)																
<b>CMB0507 Remediate Waste Site - 309-WS-3 (Building 309)</b>																										
CMB0507E	Revegetation -	1	04JAN12	04JAN12	1,058	18OCT12	18OCT12	161	161	Revegetation - Rem Wst Site - 309-WS-3 (D4 309)																
<b>CMB0509 Remediate Waste Site - 300 RLWS</b>																										
CMB0509A	Excavation	401	16FEB10*	15FEB12	233,116	04OCT10*	10MAY12	128	48	Excavation Process - Rem Wst Site -																
CMB0509B	Loadout - Rem	26	24JAN12	08MAR12	33,413	18APR12	04JUN12	48	48	Loadout - Rem Wst Site - 300 RLWS																
CMB0509D	Closeout Smpg	159	12MAR12	20DEC12	68,961	05JUN12	21MAR13	48	48	Closeout Smpg - Rem Wst Site - 300 RLWS																



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt Chart Area																
CMB0509C	Backfill - Rem	9	26DEC12	10JAN13	115,657	25MAR13	08APR13	48	48	Backfill - Rem Wst Site - 300 RLWS																
CMB0509E	Revegetation -	2	14JAN13	15JAN13	10,148	09APR13	10APR13	48	48	Revegetation - Rem Wst Site - 300 RLWS																
<b>CMB0510 Remediate Waste Site - 300 RRLWS</b>																										
CMB0510A	Excavation	381	16FEB10*	11JAN12	668,736	04OCT10*	12APR12	128	52	Excavation Process - Rem Wst Site - 300 RRLWS																
CMB0510B	Loadout - Rem	81	06SEP11	01FEB12	95,853	08DEC11	03MAY12	52	52	Loadout - Rem Wst Site - 300 RRLWS																
CMB0510D	Closeout Smpg	159	02FEB12	13NOV12	197,826	07MAY12	21FEB13	52	52	Closeout Smpg - Rem Wst Site - 300 RRLWS																
CMB0510C	Backfill - Rem	29	14NOV12	10JAN13	331,783	25FEB13	15APR13	52	52	Backfill - Rem Wst Site - 300 RRLWS																
CMB0510E	Revegetation -	6	14JAN13	22JAN13	29,110	16APR13	24APR13	52	52	Revegetation - Rem Wst Site - 300 RRLWS																
<b>CMB0511 Remediate Waste Site - 300 VTS</b>																										
CMB0511D	Closeout Smpg	159	03OCT05A	08MAR06A	21,126	29AUG05	14JUN06	-19	55	Closeout Smpg - Rem Wst Site - 300 VTS																
CMB0511C	Backfill - Rem	34	14AUG06A	17AUG06A	145,032	06JUL06	21AUG06	-21	1	Backfill - Rem Wst Site - 300 VTS																
CMB0511E	Revegetation -	5	20SEP11*	27SEP11	5,549	28AUG06	05SEP06	-1,011	-1,011	Revegetation - Rem Wst Site - 300 VTS																
<b>CMB0512 Remediate Waste Site - 300-109</b>																										
CMB0512A	Excavation	5	14APR09	21APR09	4,065	21JAN08	28JAN08	-247	-247	Excavation Process - Rem Wst Site - 300-109																
CMB0512B	Loadout - Rem	5	12MAY09	19MAY09	1,263	19FEB08	26FEB08	-247	-247	Loadout - Rem Wst Site - 300-109																
CMB0512D	Closeout Smpg	159	20MAY09	09MAR10	4,474	27FEB08	09DEC08	-247	-247	Closeout Smpg - Rem Wst Site - 300-109																
CMB0512C	Backfill - Rem	2	10MAR10	11MAR10	983	10DEC08	11DEC08	-247	-247	Backfill - Rem Wst Site - 300-109																
CMB0512E	Revegetation -	1	15MAR10	15MAR10	163	15DEC08	15DEC08	-247	-247	Revegetation - Rem Wst Site - 300-109																
<b>CMB0514 Remediate Waste Site - 300-110</b>																										
CMB0514A	Excavation	5	02SEP08*	09SEP08	56	25OCT07*	01NOV07	-169	-169	Excavation Process - Rem Wst Site - 300-110																
CMB0514B	Loadout - Rem	5	30SEP08	07OCT08	17	27NOV07	04DEC07	-169	-169	Loadout - Rem Wst Site - 300-110																
CMB0514D	Closeout Smpg	159	08OCT08	27JUL09	61	05DEC07	18SEP08	-169	-169	Closeout Smpg - Rem Wst Site - 300-110																
CMB0514C	Backfill - Rem	2	28JUL09	29JUL09	13	22SEP08	23SEP08	-169	-169	Backfill - Rem Wst Site - 300-110																
CMB0514E	Revegetation -	1	30JUL09	30JUL09	2	24SEP08	24SEP08	-169	-169	Revegetation - Rem Wst Site - 300-110																
<b>CMB0515 Remediate Waste Site - 300-121</b>																										
CMB0515A	Excavation	5	23MAY12	31MAY12	70	09MAY12	15MAY12	-8	-9	Excavation Process - Rem Wst Site - 300-121																
CMB0515B	Loadout - Rem	4	21JUN12	27JUN12	17	07JUN12	13JUN12	-8	-8	Loadout - Rem Wst Site - 300-121																
CMB0515D	Closeout Smpg	159	28JUN12	16APR13	61	14JUN12	02APR13	-8	-8	Closeout Smpg - Rem Wst Site - 300-121																
CMB0515C	Backfill - Rem	1	17APR13	17APR13	13	03APR13	03APR13	-8	-8	Backfill - Rem Wst Site - 300-121																
CMB0515E	Revegetation -	1	18APR13	18APR13	2	04APR13	04APR13	-8	-8	Revegetation - Rem Wst Site - 300-121																
<b>CMB0516 Remediate Waste Site - 300-123 (Building 366A)</b>																										
CMB0516A	Excavation	5	25APR12*	02MAY12	121,729	09MAY12*	16MAY12	8	8	Excavation Process - Rem Wst Site - 300-123 (D4 366A)																
CMB0516B	Loadout - Rem	5	23MAY12	31MAY12	40,438	07JUN12	14JUN12	8	8	Loadout - Rem Wst Site - 300-123 (D4 366A)																
CMB0516D	Closeout Smpg	159	04JUN12	20MAR13	54,108	18JUN12	03APR13	8	8	Closeout Smpg - Rem Wst Site - 300-123 (D4 366A)																
CMB0516C	Backfill - Rem	2	21MAR13	25MAR13	41,366	04APR13	08APR13	8	8	Backfill - Rem Wst Site - 300-123 (D4 366A)																

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt Chart Area																
CMB0516E	Revegetation -	1	26MAR13	26MAR13	1,298	09APR13	09APR13	8	8	Revegetation - Rem Wst Site - 300-123 (D4 366A)																
CMB0517 Remediate Waste Site - 300-15											Excavation Process - Rem Wst Site - 300-15															
CMB0517A	Excavation	225	04OCT10*	15NOV11	2,594,675	25MAY11*	18APR12	128	83	Loadout - Rem Wst Site - 300-15																
CMB0517B	Loadout - Rem	180	20JAN11	12DEC11	384,376	23JUN11	16MAY12	86	86	Closeout Smpg - Rem Wst Site - 300-15																
CMB0517D	Closeout Smpg	159	13DEC11	26SEP12	767,559	17MAY12	06MAR13	86	86	Backfill - Rem Wst Site - 300-15																
CMB0517C	Backfill - Rem	123	11APR12	15NOV12	1,287,309	13SEP12	25APR13	86	86	Revegetation - Rem Wst Site - 300-15																
CMB0517E	Revegetation -	2	19NOV12	20NOV12	112,946	29APR13	30APR13	86	86																	
CMB0518 Remediate Waste Site - 300-16											Excavation Process - Rem Wst Site - 300-16															
CMB0518A	Excavation	6	05OCT09	13OCT09	16,481	29OCT09	09NOV09	15	15	Loadout - Rem Wst Site - 300-16																
CMB0518B	Loadout - Rem	6	02NOV09	10NOV09	5,120	01DEC09	09DEC09	15	15	Closeout Smpg - Rem Wst Site - 300-16																
CMB0518D	Closeout Smpg	159	11NOV09	30AUG10	18,139	10DEC09	27SEP10	15	15	Backfill - Rem Wst Site - 300-16																
CMB0518C	Backfill - Rem	2	31AUG10	01SEP10	3,985	28SEP10	29SEP10	15	15	Revegetation - Rem Wst Site - 300-16																
CMB0518E	Revegetation -	1	02SEP10	02SEP10	662	30SEP10	30SEP10	15	15																	
CMB0520 Remediate Waste Site - 300-18											Backfill - Rem Wst Site - 300-18															
CMB0520C	Backfill - Rem	2	14AUG06A	17AUG06A	2,430	15JUN06	19JUN06	-32	-34	Revegetation - Rem Wst Site - 300-18																
CMB0520E	Revegetation -	1	21DEC06A	28DEC06A	875	22AUG06	22AUG06	-67	-69																	
CMB0521 Remediate Waste Site - 300-214											Excavation Process - Rem Wst Site - 300-214															
CMB0521A	Excavation	638	12FEB09*	23APR12	77,309	01OCT09*	23APR12	128	0	Revegetation - Rem Wst Site - 300-214																
CMB0521E	Revegetation -	1	19MAR13	19MAR13	3,365	17APR13	17APR13	17	17																	
CMB0523 Remediate Waste Site - 300-219											Excavation Process - Rem Wst Site - 300-219															
CMB0523A	Excavation	25	18SEP08	30OCT08	0	17JUN09	30JUL09	148	148	Loadout - Rem Wst Site - 300-219																
CMB0523B	Loadout - Rem	4	18NOV08	24NOV08	0	18AUG09	24AUG09	148	148	Closeout Smpg - Rem Wst Site - 300-219																
CMB0523D	Closeout Smpg	159	25NOV08	14SEP09	17,885	25AUG09	10JUN10	148	148	Backfill - Rem Wst Site - 300-219																
CMB0523C	Backfill - Rem	1	15SEP09	15SEP09	0	14JUN10	14JUN10	148	148	Revegetation - Rem Wst Site - 300-219																
CMB0523E	Revegetation -	1	16SEP09	16SEP09	0	15JUN10	15JUN10	148	148																	
CMB0524 Remediate Waste Site - 300-22											Revegetation - Rem Wst Site - 300-22															
CMB0524E	Revegetation -	1	04JAN12	04JAN12	25	18OCT12	18OCT12	161	161																	
CMB0527 Remediate Waste Site - 300-224											Excavation Process - Rem Wst Site - 300-224															
CMB0527A	Excavation	25	18SEP08	30OCT08	29,195	17JUN09	30JUL09	148	148	Loadout - Rem Wst Site - 300-224																
CMB0527B	Loadout - Rem	7	12NOV08	24NOV08	4,572	12AUG09	24AUG09	148	148	Closeout Smpg - Rem Wst Site - 300-224																
CMB0527D	Closeout Smpg	159	25NOV08	14SEP09	21,282	25AUG09	10JUN10	148	148	Backfill - Rem Wst Site - 300-224																
CMB0527C	Backfill - Rem	3	15SEP09	17SEP09	5,234	14JUN10	16JUN10	148	148	Revegetation - Rem Wst Site - 300-224																
CMB0527E	Revegetation -	1	21SEP09	21SEP09	822	17JUN10	17JUN10	148	148																	
CMB0528 Remediate Waste Site - 300-24											Excavation Process - Rem Wst Site - 300-24															
CMB0528A	Excavation	11	14AUG08*	03SEP08	37,831	01OCT07*	17OCT07	-175	-175																	

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt Chart Area																
CMB0528B	Loadout - Rem	11	15SEP08	01OCT08	20,881	29OCT07	14NOV07	-175	-175	Loadout - Rem Wst Site - 300-24																
CMB0528D	Closeout Smpg	159	02OCT08	21JUL09	11,942	15NOV07	03SEP08	-175	-175	Closeout Smpg - Rem Wst Site - 300-24																
CMB0528C	Backfill - Rem	4	22JUL09	28JUL09	21,704	04SEP08	10SEP08	-175	-175	Backfill - Rem Wst Site - 300-24																
CMB0528E	Revegetation -	1	29JUL09	29JUL09	825	11SEP08	11SEP08	-175	-175	Revegetation - Rem Wst Site - 300-24																
CMB0529 Remediate Waste Site - 300-251																										
CMB0529A	Excavation	6	05OCT09	13OCT09	6,746	03FEB09	11FEB09	-135	-135	Excavation Process - Rem Wst Site - 300-251																
CMB0529B	Loadout - Rem	6	02NOV09	10NOV09	3,724	04MAR09	12MAR09	-135	-135	Loadout - Rem Wst Site - 300-251																
CMB0529D	Closeout Smpg	159	11NOV09	30AUG10	2,130	16MAR09	29DEC09	-135	-135	Closeout Smpg - Rem Wst Site - 300-251																
CMB0529C	Backfill - Rem	2	31AUG10	01SEP10	3,870	30DEC09	04JAN10	-135	-135	Backfill - Rem Wst Site - 300-251																
CMB0529E	Revegetation -	1	02SEP10	02SEP10	147	05JAN10	05JAN10	-135	-135	Revegetation - Rem Wst Site - 300-251																
CMB0530 Remediate Waste Site - 300-255																										
CMB0530A	Excavation	8	04OCT10*	14OCT10	7,765	04OCT10*	12OCT10	0	-2	Excavation Process - Rem Wst Site - 300-255																
CMB0530E	Revegetation -	1	04JAN12	04JAN12	135	18OCT12	18OCT12	161	161	Revegetation - Rem Wst Site - 300-255																
CMB0532 Remediate Waste Site - 300-257																										
CMB0532A	Excavation	23	04OCT10*	10NOV10	119,855	04OCT10*	02NOV10	0	-5	Excavation Process - Rem Wst Site - 300-257																
CMB0532B	Loadout - Rem	18	03NOV10	07DEC10	17,179	01NOV10	02DEC10	-2	-2	Loadout - Rem Wst Site - 300-257																
CMB0532D	Closeout Smpg	159	08DEC10	22SEP11	35,456	06DEC10	20SEP11	-2	-2	Closeout Smpg - Rem Wst Site - 300-257																
CMB0532C	Backfill - Rem	7	26SEP11	05OCT11	59,464	21SEP11	03OCT11	-2	-2	Backfill - Rem Wst Site - 300-257																
CMB0532E	Revegetation -	1	06OCT11	06OCT11	5,217	04OCT11	04OCT11	-2	-2	Revegetation - Rem Wst Site - 300-257																
CMB0533 Remediate Waste Site - 300-258																										
CMB0533A	Excavation	6	26MAR07*	03APR07	12,690	25JAN07*	05FEB07	-32	-32	Excavation Process - Rem Wst Site - 300-258																
CMB0533B	Loadout - Rem	6	23APR07	01MAY07	1,987	26FEB07	06MAR07	-32	-32	Loadout - Rem Wst Site - 300-258																
CMB0533D	Closeout Smpg	159	02MAY07	19FEB08	9,251	07MAR07	18DEC07	-32	-32	Closeout Smpg - Rem Wst Site - 300-258																
CMB0533C	Backfill - Rem	2	20FEB08	21FEB08	2,275	19DEC07	20DEC07	-32	-32	Backfill - Rem Wst Site - 300-258																
CMB0533E	Revegetation -	1	25FEB08	25FEB08	357	26DEC07	26DEC07	-32	-32	Revegetation - Rem Wst Site - 300-258																
CMB0534 Remediate Waste Site - 300-259																										
CMB0534A	Excavation	15	02SEP08*	25SEP08	64,859	25OCT07*	20NOV07	-169	-169	Excavation Process - Rem Wst Site - 300-259																
CMB0534B	Loadout - Rem	15	30SEP08	23OCT08	35,798	27NOV07	20DEC07	-169	-169	Loadout - Rem Wst Site - 300-259																
CMB0534D	Closeout Smpg	159	27OCT08	12AUG09	20,474	26DEC07	07OCT08	-169	-169	Closeout Smpg - Rem Wst Site - 300-259																
CMB0534C	Backfill - Rem	6	13AUG09	24AUG09	37,210	08OCT08	16OCT08	-169	-169	Backfill - Rem Wst Site - 300-259																
CMB0534E	Revegetation -	1	11JAN10	11JAN10	1,414	20OCT08	20OCT08	-242	-242	Revegetation - Rem Wst Site - 300-259																
CMB0535 Remediate Waste Site - 300-260																										
CMB0535A	Excavation	7	05OCT09*	14OCT09	13,109	03FEB09*	12FEB09	-135	-135	Excavation Process - Rem Wst Site - 300-260																
CMB0535B	Loadout - Rem	7	02NOV09	11NOV09	7,235	04MAR09	16MAR09	-135	-135	Loadout - Rem Wst Site - 300-260																
CMB0535D	Closeout Smpg	159	12NOV09	31AUG10	4,138	17MAR09	30DEC09	-135	-135	Closeout Smpg - Rem Wst Site - 300-260																









Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
<b>CMB0590 Remediate Waste Site - UPR-300-38</b>																						
CMB0590A	Excavation	41	21JUL08*	30SEP08	228,374	08OCT07*	19DEC07	-156	-156	■ Excavation Process - Rem Wst Site - UPR-300-38												
CMB0590B	Loadout - Rem	41	25AUG08	04NOV08	126,050	12NOV07	29JAN08	-156	-156	■ Loadout - Rem Wst Site - UPR-300-38												
CMB0590D	Closeout Smpg	159	05NOV08	24AUG09	72,090	30JAN08	10NOV08	-156	-156	■ Closeout Smpg - Rem Wst Site - UPR-300-38												
CMB0590C	Backfill - Rem	15	25AUG09	21SEP09	131,019	11NOV08	09DEC08	-156	-156	■ Backfill - Rem Wst Site - UPR-300-38												
CMB0590E	Revegetation -	3	22SEP09	24SEP09	4,978	10DEC08	15DEC08	-156	-156	■ Revegetation - Rem Wst Site - UPR-300-38												
<b>CMB0591 Remediate Waste Site - UPR-300-39</b>																						
CMB0591A	Excavation	6	16SEP08*	24SEP08	11,656	09JUN09*	17JUN09	145	145	■ Excavation Process - Rem Wst Site - UPR-300-39												
CMB0591B	Loadout - Rem	6	21OCT08	29OCT08	6,433	15JUL09	23JUL09	145	145	■ Loadout - Rem Wst Site - UPR-300-39												
CMB0591D	Closeout Smpg	159	30OCT08	18AUG09	3,679	27JUL09	11MAY10	145	145	■ Closeout Smpg - Rem Wst Site - UPR-300-39												
CMB0591C	Backfill - Rem	2	19AUG09	20AUG09	6,687	12MAY10	13MAY10	145	145	■ Backfill - Rem Wst Site - UPR-300-39												
CMB0591E	Revegetation -	1	24AUG09	24AUG09	254	17MAY10	17MAY10	145	145	■ Revegetation - Rem Wst Site - UPR-300-39												
<b>CMB0592 Remediate Waste Site - UPR-300-4</b>																						
CMB0592A	Excavation	140	19SEP11*	30MAY12	827,869	19DEC11*	10JUL12	50	22	■ Excavation Process - Rem Wst Site - UPR-300-4												
CMB0592B	Loadout - Rem	112	19DEC11	10JUL12	365,549	31JAN12	16AUG12	22	22	■ Loadout - Rem Wst Site - UPR-300-4												
CMB0592D	Closeout Smpg	139	11JUL12	21MAR13	209,064	20AUG12	30APR13	22	22	■ Closeout Smpg - Rem Wst Site - UPR-300-4												
CMB0592C	Backfill - Rem	40	14JAN13	25MAR13	379,962	16JAN13	27MAR13	2	2	■ Backfill - Rem Wst Site - UPR-300-4												
CMB0592E	Revegetation -	8	26MAR13	08APR13	14,435	28MAR13	10APR13	2	2	■ Revegetation - Rem Wst Site - UPR-300-4												
<b>CMB0593 Remediate Waste Site - UPR-300-40</b>																						
CMB0593A	Excavation	6	18SEP08	29SEP08	19,154	17JUN09	25JUN09	148	148	■ Excavation Process - Rem Wst Site - UPR-300-40												
CMB0593B	Loadout - Rem	6	28OCT08	05NOV08	5,950	28JUL09	05AUG09	148	148	■ Loadout - Rem Wst Site - UPR-300-40												
CMB0593D	Closeout Smpg	159	06NOV08	25AUG09	21,081	06AUG09	24MAY10	148	148	■ Closeout Smpg - Rem Wst Site - UPR-300-40												
CMB0593C	Backfill - Rem	2	26AUG09	27AUG09	4,632	25MAY10	26MAY10	148	148	■ Backfill - Rem Wst Site - UPR-300-40												
CMB0593E	Revegetation -	1	31AUG09	31AUG09	770	27MAY10	27MAY10	148	148	■ Revegetation - Rem Wst Site - UPR-300-40												
<b>CMB0595 Remediate Waste Site - UPR-300-45</b>																						
CMB0595A	Excavation	6	18SEP08	29SEP08	19,154	17JUN09	25JUN09	148	148	■ Excavation Process - Rem Wst Site - UPR-300-45												
CMB0595B	Loadout - Rem	6	28OCT08	05NOV08	5,950	28JUL09	05AUG09	148	148	■ Loadout - Rem Wst Site - UPR-300-45												
CMB0595D	Closeout Smpg	159	06NOV08	25AUG09	21,081	06AUG09	24MAY10	148	148	■ Closeout Smpg - Rem Wst Site - UPR-300-45												
CMB0595C	Backfill - Rem	2	26AUG09	27AUG09	4,632	25MAY10	26MAY10	148	148	■ Backfill - Rem Wst Site - UPR-300-45												
CMB0595E	Revegetation -	1	31AUG09	31AUG09	770	27MAY10	27MAY10	148	148	■ Revegetation - Rem Wst Site - UPR-300-45												
<b>CMB0596 Remediate Waste Site - UPR-300-46</b>																						
CMB0596A	Excavation	5	02SEP08*	09SEP08	2,422	25OCT07*	01NOV07	-169	-169	■ Excavation Process - Rem Wst Site - UPR-300-46												
CMB0596B	Loadout - Rem	5	09OCT08	16OCT08	752	06DEC07	13DEC07	-169	-169	■ Loadout - Rem Wst Site - UPR-300-46												
CMB0596D	Closeout Smpg	159	20OCT08	05AUG09	2,666	17DEC07	30SEP08	-169	-169	■ Closeout Smpg - Rem Wst Site - UPR-300-46												
CMB0596C	Backfill - Rem	2	06AUG09	10AUG09	586	01OCT08	02OCT08	-169	-169	■ Backfill - Rem Wst Site - UPR-300-46												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16															
CMB0596E	Revegetation -	1	11AUG09	11AUG09	97	06OCT08	06OCT08	-169	-169	Revegetation - Rem Wst Site - UPR-300-46															
CMB0597 Remediate Waste Site - UPR-300-5											Revegetation - Rem Wst Site - UPR-300-5														
CMB0597E	Revegetation -	1	04JAN12	04JAN12	10	18OCT12	18OCT12	161	161																
CMB0598 Remediate Waste Site - UPR-600-22											Excavation Process - Rem Wst Site - UPR-600-22														
CMB0598A	Excavation	4	15JAN08	21JAN08	0	20NOV08	01DEC08	174	174	Loadout - Rem Wst Site - UPR-600-22															
CMB0598B	Loadout - Rem	4	26FEB08	03MAR08	0	08JAN09	14JAN09	174	174	Closeout Smpg - Rem Wst Site - UPR-600-22															
CMB0598D	Closeout Smpg	159	04MAR08	15DEC08	17,885	15JAN09	27OCT09	174	174	Backfill - Rem Wst Site - UPR-600-22															
CMB0598C	Backfill - Rem	1	16DEC08	16DEC08	0	28OCT09	28OCT09	174	174	Revegetation - Rem Wst Site - UPR-600-22															
CMB0598E	Revegetation -	1	17DEC08	17DEC08	0	29OCT09	29OCT09	174	174																
CMB05A1 Remediate Waste Site - 300-25 (Bldg 324)											Excavation Process - Rem Wst Site - 300-25 (D4 324)														
CMB05A1A	Excavation	7	25AUG10	07SEP10	0	13SEP10	22SEP10	9	9	Loadout - Rem Wst Site - 300-25 (D4 324)															
CMB05A1B	Loadout - Rem	7	06OCT10	18OCT10	0	21OCT10	02NOV10	9	9	Closeout Smpg - Rem Wst Site - 300-25 (D4 324)															
CMB05A1D	Closeout Smpg	159	19OCT10	04AUG11	0	03NOV10	22AUG11	9	9	Backfill - Rem Wst Site - 300-25 (D4 324)															
CMB05A1C	Backfill - Rem	3	08AUG11	10AUG11	0	23AUG11	25AUG11	9	9	Revegetation - Rem Wst Site - 300-25 (D4 324)															
CMB05A1E	Revegetation -	1	11AUG11	11AUG11	0	29AUG11	29AUG11	9	9																
CMB05A2 Remediate Waste Site - 300-263											Excavation Process - Rem Wst Site - 300-263														
CMB05A2A	Excavation	6	01NOV10*	09NOV10	24,736	24MAY11*	02JUN11	111	111	Loadout - Rem Wst Site - 300-263															
CMB05A2B	Loadout - Rem	6	14DEC10	27DEC10	3,653	06JUL11	14JUL11	111	111	Closeout Smpg - Rem Wst Site - 300-263															
CMB05A2D	Closeout Smpg	159	28DEC10	10OCT11	19,223	18JUL11	01MAY12	111	111	Backfill - Rem Wst Site - 300-263															
CMB05A2C	Backfill - Rem	2	11OCT11	12OCT11	3,531	02MAY12	03MAY12	111	111	Revegetation - Rem Wst Site - 300-263															
CMB05A2E	Revegetation -	1	13OCT11	13OCT11	429	07MAY12	07MAY12	111	111																
CMB05A3 Remediate Waste Site - 300-265											Excavation Process - Rem Wst Site - 300-265														
CMB05A3A	Excavation	9	08SEP10*	22SEP10	39,223	23SEP10*	04OCT10	9	6	Loadout - Rem Wst Site - 300-265															
CMB05A3B	Loadout - Rem	6	25OCT10	02NOV10	3,653	03NOV10	11NOV10	6	6	Closeout Smpg - Rem Wst Site - 300-265															
CMB05A3D	Closeout Smpg	159	03NOV10	22AUG11	24,946	15NOV10	31AUG11	6	6	Backfill - Rem Wst Site - 300-265															
CMB05A3C	Backfill - Rem	2	23AUG11	24AUG11	13,564	01SEP11	06SEP11	6	6	Revegetation - Rem Wst Site - 300-265															
CMB05A3E	Revegetation -	1	25AUG11	25AUG11	2,740	07SEP11	07SEP11	6	6																
CMB05A4 Remediate Waste Site - 300-93 (Bldg 324)											Excavation Process - Rem Wst Site - 300-93 (Bldg 324)														
CMB05A4A	Excavation	48	08SEP10	02DEC10	30,502	23SEP10	20DEC10	9	9	Loadout - Rem Wst Site - 300-93 (Bldg 324)															
CMB05A4B	Loadout - Rem	48	06OCT10	05JAN11	3,653	21OCT10	20JAN11	9	9	Closeout Smpg - Rem Wst Site - 300-93 (Bldg 324)															
CMB05A4D	Closeout Smpg	18	06JAN11	07FEB11	29,059	24JAN11	23FEB11	9	9	Backfill - Rem Wst Site - 300-93 (Bldg 324)															
CMB05A4C	Backfill - Rem	24	08FEB11	22MAR11	6,818	24FEB11	06APR11	9	9	Revegetation - Rem Wst Site - 300-93 (Bldg 324)															
CMB05A4E	Revegetation -	6	23MAR11	31MAR11	427	12MAY11	23MAY11	29	29																
CMB05A5 Remediate Waste Site - 300-94 (Bldg 324)											Excavation Process - Rem Wst Site - 300-94 (Bldg 324)														
CMB05A5A	Excavation	1	08SEP10	08SEP10	30,502	23SEP10	23SEP10	9	9																





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt Chart																
CMB0603E	Revegetation -	3	14SEP06A	28DEC06A	6,280	26OCT06	31OCT06	24	-30	Revegetation - Rem BG - 618-2																
CMB0604 Remediate Burial Ground - 618-3																										
CMB0604M	Complete 618-3	0		12JAN06A	0		02MAR06	27	27	Complete 618-3 Loadout																
CMB0604D	Closeout Smpg	159	05DEC05A	12SEP06A	171,918	06MAR06	14DEC06	48	52	Closeout Smpg - Rem BG - 618-3																
CMB0604B	Loadout - Rem	101	29AUG05A	19OCT06A	1,050,356	29AUG05	02MAR06	0	-129	Loadout - Rem BG - 618-3																
CMB0604C	Backfill - Rem	11	21NOV06A	12DEC06A	87,553	04FEB08	07APR08	237	262	Backfill - Rem BG - 618-3																
CMB0604E	Revegetation -	7	21DEC06A	28DEC06A	4,432	08APR08	17APR08	257	261	Revegetation - Rem BG - 618-3																
CMB0605 Remediate Burial Ground - 618-7																										
CMB0605A	Excavation -	177	21MAY07*	08APR08	8,051,608	20MAR06*	09MAY07	-235	-182	Excavation - Rem BG - 618-7																
CMB0605B	Loadout - Rem	202	09APR08	13APR09	1,345,245	17APR06	07JUN07	-396	-368	Loadout - Rem BG - 618-7																
CMB0605D	Closeout Smpg	163	14APR09	04FEB10	457,823	11JUN07	26MAR08	-368	-372	Closeout Smpg - Rem BG - 618-7																
CMB0605C	Backfill - Rem	35	08FEB10	08APR10	308,648	27MAR08	20AUG08	-372	-325	Backfill - Rem BG - 618-7																
CMB0605E	Revegetation -	10	12APR10	27APR10	11,067	21AUG08	18SEP08	-325	-319	Revegetation - Rem BG - 618-7																
CMB0606 Remediate Burial Ground - 618-8																										
CMB0606A	Excavation -	91	29AUG05A	08NOV05A	351,277	02OCT06*	19MAR07	218	268	Excavation - Rem BG - 618-8																
CMB0606D	Closeout Smpg	159	05DEC05A	10AUG06A	249,970	17APR07	31JAN08	272	293	Closeout Smpg - Rem BG - 618-8																
CMB0606B	Loadout - Rem	91	29AUG05A	24AUG06A	992,395	30OCT06	16APR07	234	126	Loadout - Rem BG - 618-8																
CMB0606C	Backfill - Rem	34	24AUG06A	24AUG06A	120,859	04FEB08	01APR08	286	318	Backfill - Rem BG - 618-8																
CMB0606E	Revegetation -	7	21DEC06A	28DEC06A	5,274	21APR08	30APR08	264	268	Revegetation - Rem BG - 618-8																
CMR25 Fld. Rem.-300 Area Non Site Specific Support																										
0041.99902	TPA M-16-03H	0		29AUG05A	0		29JUN06*	167	167	TPA M-16-03H Comp RA 300 FF 1																
0041.99920	TPA M-16-61	0		27APR10*	0		31DEC08*	-264	-264	TPA M-16-61 Comp RA 300 FF 2																
CMR2501 Fld. Rem.-300 Area Non Site Specific Support																										
CMR2501A2	Fld. Rem.-300	199	03OCT05A	17MAY07	2,188,522	03OCT05	28SEP06	0	-126	Fld. Rem.-300 Area Non Site Specific Support																
CMR2501A3	Fld. Rem.-300	199	28SEP06A	27SEP07	1,749,192	02OCT06	27SEP07	1	0	Fld. Rem.-300 Area Non Site Specific Support																
CMR2501A5	Fld. Rem.-300	186	01OCT08	29SEP09	1,007,237	01OCT08	30SEP09	0	1	Fld. Rem.-300 Area Non Site Specific Support																
CMR2501A6	Fld. Rem.-300	200	30SEP09	29SEP10	726,179	01OCT09	30SEP10	1	1	Fld. Rem.-300 Area Non Site Specific Support																
CMR2501A7	Fld. Rem.-300	199	30SEP10	28SEP11	2,968,641	04OCT10	29SEP11	1	1	Fld. Rem.-300 Area Non Site Specific Support																
CMR2501A8	Fld. Rem.-300	199	29SEP11	26SEP12	4,158,440	03OCT11	27SEP12	1	1	Fld. Rem.-300 Area Non Site Specific Support																
<b>400 AREA</b>																										
<b>DD D4</b>																										
AEA0705 D4 Building - 4701B																										
AEA0705A	Plan &	30	01NOV11*	28DEC11	3,033	21NOV11	02APR12	11	52	Plan & Document - 4701B																
AEA0705B	Deact & Decom	5	28DEC11	05JAN12	20,498	18JAN12	08AUG12	11	120	Deact & Decom - 4701B																
AEA0705C	Demolition	5	09JAN12	16JAN12	19,908	09AUG12	01OCT12	120	144	Demolition Above Grade - 4701B																







Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																
										Gantt chart area with activity bars and labels																
AEA0715D	Demolition	15	23FEB12	20MAR12	384	02OCT12	18DEC12	123	151	Demolition Below Grade - 4726																
AEA0715E	Loadout - 4726	15	16APR12	09MAY12	3,034	29OCT12	12FEB13	109	151	Loadout - 4726																
AEA0715F	Transition/Final	10	10MAY12	29MAY12	1,463	13FEB13	30APR13	151	184	Transition/Final Closure - 4726																
AEA0716 D4 Building - 4727																										
AEA0716B	Deact & Decom	5	28DEC11	05JAN12	6,879	18JAN12	08AUG12	11	120	Deact & Decom - 4727																
AEA0716A	Plan &	45	01NOV11	25JAN12	327	21NOV11	02APR12	11	37	Plan & Document - 4727																
AEA0716C	Demolition	5	26JAN12	02FEB12	3,389	09AUG12	01OCT12	109	133	Demolition Above Grade - 4727																
AEA0716D	Demolition	5	06FEB12	13FEB12	134	02OCT12	18DEC12	133	171	Demolition Below Grade - 4727																
AEA0716E	Loadout - 4727	15	12MAR12	04APR12	1,055	29OCT12	12FEB13	129	171	Loadout - 4727																
AEA0716F	Transition/Final	10	05APR12	23APR12	509	13FEB13	30APR13	171	204	Transition/Final Closure - 4727																
AEA0717 D4 Building - 4732A																										
AEA0717A	Plan &	30	01NOV11	28DEC11	47,361	21NOV11	02APR12	11	52	Plan & Document - 4732A																
AEA0717B	Deact & Decom	15	28DEC11	24JAN12	168,339	18JAN12	08AUG12	11	110	Deact & Decom - 4732A																
AEA0717C	Demolition	5	25JAN12	01FEB12	77,199	09AUG12	01OCT12	110	134	Demolition Above Grade - 4732A																
AEA0717D	Demolition	5	02FEB12	09FEB12	11,747	02OCT12	18DEC12	134	172	Demolition Below Grade - 4732A																
AEA0717E	Loadout -	5	27MAR12	03APR12	32,273	29OCT12	12FEB13	120	172	Loadout - 4732A																
AEA0717F	Transition/Final	10	04APR12	19APR12	19,842	13FEB13	30APR13	172	205	Transition/Final Closure - 4732A																
AEA0718 D4 Building - 4732B (See Also Waste Site 400-37)																										
AEA0718A	Plan &	30	01NOV11	28DEC11	81,388	21NOV11	02APR12	11	52	Plan & Document - 4732B (incl WS 400-37)																
AEA0718B	Deact & Decom	15	28DEC11	24JAN12	289,179	18JAN12	08AUG12	11	110	Deact & Decom - 4732B (incl WS 400-37)																
AEA0718C	Demolition	5	25JAN12	01FEB12	132,615	09AUG12	01OCT12	110	134	Demolition Above Grade - 4732B (incl WS 400-37)																
AEA0718D	Demolition	5	02FEB12	09FEB12	0	02OCT12	18DEC12	134	172	Demolition Below Grade - 4732B (incl WS 400-37)																
AEA0718E	Loadout -	5	27MAR12	03APR12	55,440	29OCT12	12FEB13	120	172	Loadout - 4732B (Includes Waste Site 400-37)																
AEA0718F	Transition/Final	10	04APR12	19APR12	0	13FEB13	30APR13	172	205	Transition/Final Closure - 4732B (WS 400-37)																
AEA0719 D4 Building - 4732C																										
AEA0719A	Plan &	30	01NOV11	28DEC11	64,886	21NOV11	02APR12	11	52	Plan & Document - 4732C																
AEA0719B	Deact & Decom	15	28DEC11	24JAN12	229,877	18JAN12	08AUG12	11	110	Deact & Decom - 4732C																
AEA0719C	Demolition	5	25JAN12	01FEB12	105,419	09AUG12	01OCT12	110	134	Demolition Above Grade - 4732C																
AEA0719D	Demolition	5	02FEB12	09FEB12	16,041	02OCT12	18DEC12	134	172	Demolition Below Grade - 4732C																
AEA0719E	Loadout -	5	27MAR12	03APR12	44,071	29OCT12	12FEB13	120	172	Loadout - 4732C																
AEA0719F	Transition/Final	10	04APR12	19APR12	27,096	13FEB13	30APR13	172	205	Transition/Final Closure - 4732C																
AEA0720 D4 Building - 4734B																										
AEA0720A	Plan &	71	01NOV11	13MAR12	29,473	21NOV11	02APR12	11	11	Plan & Document - 4734B																
AEA0720B	Deact & Decom	114	28DEC11	19JUL12	316,953	18JAN12	08AUG12	11	11	Deact & Decom - 4734B																
AEA0720C	Demolition	29	23JUL12	11SEP12	47,845	09AUG12	01OCT12	11	11	Demolition Above Grade - 4734B																

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Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
AEA0720D	Demolition	43	12SEP12	28NOV12	7,280	02OCT12	18DEC12	11	11	Demolition Below Grade - 4734A												
AEA0720E	Loadout -	57	09OCT12	23JAN13	20,002	29OCT12	12FEB13	11	11	Loadout - 4734B												
AEA0720F	Transition/Final	43	24JAN13	10APR13	12,298	13FEB13	30APR13	11	11	Transition/Final Closure - 4734A												
AEA0721 D4 Building - 4734C																						
AEA0721A	Plan &	71	01NOV11	13MAR12	27,162	21NOV11	02APR12	11	11	Plan & Document - 4734C												
AEA0721B	Deact & Decom	114	28DEC11	19JUL12	95,972	18JAN12	08AUG12	11	11	Deact & Decom - 4734C												
AEA0721C	Demolition	29	23JUL12	11SEP12	44,012	09AUG12	01OCT12	11	11	Demolition Above Grade - 4734C												
AEA0721D	Demolition	43	12SEP12	28NOV12	6,697	02OCT12	18DEC12	11	11	Demolition Below Grade - 4734C												
AEA0721E	Loadout -	57	09OCT12	23JAN13	18,399	29OCT12	12FEB13	11	11	Loadout - 4734C												
AEA0721F	Transition/Final	43	24JAN13	10APR13	11,312	13FEB13	30APR13	11	11	Transition/Final Closure - 4734C												
AEA0722 D4 Building - 4734D																						
AEA0722A	Plan &	30	01NOV11	28DEC11	26,360	21NOV11	02APR12	11	52	Plan & Document - 4734D												
AEA0722B	Deact & Decom	15	28DEC11	24JAN12	92,728	18JAN12	08AUG12	11	110	Deact & Decom - 4734D												
AEA0722C	Demolition	5	25JAN12	01FEB12	42,524	09AUG12	01OCT12	110	134	Demolition Above Grade - 4734D												
AEA0722D	Demolition	5	02FEB12	09FEB12	6,471	02OCT12	18DEC12	134	172	Demolition Below Grade - 4734D												
AEA0722E	Loadout -	5	27MAR12	03APR12	17,777	29OCT12	12FEB13	120	172	Loadout - 4734D												
AEA0722F	Transition/Final	10	04APR12	19APR12	10,930	13FEB13	30APR13	172	205	Transition/Final Closure - 4734D												
AEA0723 D4 Building - 4760																						
AEA0723A	Plan &	30	01NOV11	28DEC11	14,017	21NOV11	02APR12	11	52	Plan & Document - 4760												
AEA0723B	Deact & Decom	15	28DEC11	24JAN12	141,370	18JAN12	08AUG12	11	110	Deact & Decom - 4760												
AEA0723C	Demolition	5	25JAN12	01FEB12	23,554	09AUG12	01OCT12	110	134	Demolition Above Grade - 4760												
AEA0723D	Demolition	5	02FEB12	09FEB12	3,915	02OCT12	18DEC12	134	172	Demolition Below Grade - 4760												
AEA0723E	Loadout - 4760	5	27MAR12	03APR12	6,995	29OCT12	12FEB13	120	172	Loadout - 4760												
AEA0723F	Transition/Final	10	04APR12	19APR12	7,453	13FEB13	30APR13	172	205	Transition/Final Closure - 4760												
AEA0724 D4 Building - 4790																						
AEA0724A	Plan &	30	01NOV11	28DEC11	13,938	21NOV11	02APR12	11	52	Plan & Document - 4790												
AEA0724B	Deact & Decom	15	28DEC11	24JAN12	41,197	18JAN12	08AUG12	11	110	Deact & Decom - 4790												
AEA0724C	Demolition	5	25JAN12	01FEB12	23,335	09AUG12	01OCT12	110	134	Demolition Above Grade - 4790												
AEA0724D	Demolition	5	02FEB12	09FEB12	3,879	02OCT12	18DEC12	134	172	Demolition Below Grade - 4790												
AEA0724E	Loadout - 4790	5	27MAR12	03APR12	6,930	29OCT12	12FEB13	120	172	Loadout - 4790												
AEA0724F	Transition/Final	10	04APR12	19APR12	7,384	13FEB13	30APR13	172	205	Transition/Final Closure - 4790												
AEA0725 D4 Building - 4790A																						
AEA0725A	Plan &	71	01NOV11	13MAR12	3,484	21NOV11	02APR12	11	11	Plan & Document - 4790A												
AEA0725B	Deact & Decom	114	28DEC11	19JUL12	21,677	18JAN12	08AUG12	11	11	Deact & Decom - 4790A												
AEA0725C	Demolition	29	23JUL12	11SEP12	20,969	09AUG12	01OCT12	11	11	Demolition Above Grade - 4790A												

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Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt chart area with activity bars and labels												
AEA0725D	Demolition	43	12SEP12	28NOV12	0	02OCT12	18DEC12	11	11	Demolition Below Grade - 4790												
AEA0725E	Loadout -	57	09OCT12	23JAN13	22,691	29OCT12	12FEB13	11	11	Loadout - 4790A												
AEA0725F	Transition/Final	43	24JAN13	10APR13	2,626	13FEB13	30APR13	11	11	Transition/Final Closure - 4790												
AEA0726 D4 Building - 4791TC																						
AEA0726A	Plan &	30	01NOV11	28DEC11	5,147	21NOV11	02APR12	11	52	Plan & Document - 4791TC												
AEA0726B	Deact & Decom	5	28DEC11	05JAN12	15,304	18JAN12	08AUG12	11	120	Deact & Decom - 4791TC												
AEA0726C	Demolition	5	09JAN12	16JAN12	8,668	09AUG12	01OCT12	120	144	Demolition Above Grade - 4791TC												
AEA0726D	Demolition	5	17JAN12	24JAN12	1,441	02OCT12	18DEC12	144	182	Demolition Below Grade - 4791TC												
AEA0726E	Loadout -	5	08MAR12	15MAR12	2,574	29OCT12	12FEB13	130	182	Loadout - 4791TC												
AEA0726F	Transition/Final	10	19MAR12	03APR12	2,743	13FEB13	30APR13	182	215	Transition/Final Closure - 4791TC												
AEA0727 D4 Building - 4802																						
AEA0727A	Plan &	30	01NOV11	28DEC11	4,791	21NOV11	02APR12	11	52	Plan & Document - 4802												
AEA0727B	Deact & Decom	15	28DEC11	24JAN12	14,259	18JAN12	08AUG12	11	110	Deact & Decom - 4802												
AEA0727C	Demolition	5	25JAN12	01FEB12	8,077	09AUG12	01OCT12	110	134	Demolition Above Grade - 4802												
AEA0727D	Demolition	5	02FEB12	09FEB12	1,343	02OCT12	18DEC12	134	172	Demolition Below Grade - 4802												
AEA0727E	Loadout - 4802	5	27MAR12	03APR12	2,399	29OCT12	12FEB13	120	172	Loadout - 4802												
AEA0727F	Transition/Final	10	04APR12	19APR12	2,556	13FEB13	30APR13	172	205	Transition/Final Closure - 4802												
AEA0728 D4 Building - 4814																						
AEA0728A	Plan &	30	01NOV11	28DEC11	17,424	21NOV11	02APR12	11	52	Plan & Document - 4814												
AEA0728B	Deact & Decom	10	28DEC11	16JAN12	61,222	18JAN12	08AUG12	11	115	Deact & Decom - 4814												
AEA0728C	Demolition	5	17JAN12	24JAN12	28,076	09AUG12	01OCT12	115	139	Demolition Above Grade - 4814												
AEA0728D	Demolition	5	25JAN12	01FEB12	4,272	02OCT12	18DEC12	139	177	Demolition Below Grade - 4814												
AEA0728E	Loadout - 4814	5	19MAR12	26MAR12	11,737	29OCT12	12FEB13	125	177	Loadout - 4814												
AEA0728F	Transition/Final	10	27MAR12	11APR12	7,216	13FEB13	30APR13	177	210	Transition/Final Closure - 4814												
AEA0729 D4 Building - 4831																						
AEA0729A	Plan &	30	01NOV11	28DEC11	5,339	21NOV11	02APR12	11	52	Plan & Document - 4831												
AEA0729B	Deact & Decom	15	28DEC11	24JAN12	53,611	18JAN12	08AUG12	11	110	Deact & Decom - 4831												
AEA0729C	Demolition	5	25JAN12	01FEB12	8,927	09AUG12	01OCT12	110	134	Demolition Above Grade - 4831												
AEA0729D	Demolition	5	02FEB12	09FEB12	1,484	02OCT12	18DEC12	134	172	Demolition Below Grade - 4831												
AEA0729E	Loadout - 4831	5	27MAR12	03APR12	2,651	29OCT12	12FEB13	120	172	Loadout - 4831												
AEA0729F	Transition/Final	10	04APR12	19APR12	2,825	13FEB13	30APR13	172	205	Transition/Final Closure - 4831												
AEA0730 D4 Building - 4843 (See Also Waste Site 400-36)																						
AEA0730A	Plan &	30	01NOV11	28DEC11	1	21NOV11	02APR12	11	52	Plan & Document - 4843 (incl WS 400-36)												
AEA0730B	Deact & Decom	15	28DEC11	24JAN12	0	18JAN12	08AUG12	11	110	Deact & Decom - 4843 (incl WS 400-36)												
AEA0730C	Demolition	5	25JAN12	01FEB12	0	09AUG12	01OCT12	110	134	Demolition Above Grade - 4843 (incl WS 400-36)												

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Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
AEA0730D	Demolition	5	02FEB12	09FEB12	0	02OCT12	18DEC12	134	172	Demolition Below Grade - 4843 (incl WS 400-36)												
AEA0730E	Loadout - 4843	5	27MAR12	03APR12	0	29OCT12	12FEB13	120	172	Loadout - 4843 (Includes Waste Site 400-36)												
AEA0730F	Transition/Final	10	04APR12	19APR12	0	13FEB13	30APR13	172	205	Transition/Final Closure - 4843 (incl WS 400-36)												
AEA0731 D4 Building - CC40168																						
AEA0731A	Plan &	30	01NOV11	28DEC11	15	21NOV11	02APR12	11	52	Plan & Document - CC40168												
AEA0731B	Deact & Decom	15	28DEC11	24JAN12	0	18JAN12	08AUG12	11	110	Deact & Decom - CC40168												
AEA0731C	Demolition	5	25JAN12	01FEB12	1,091	09AUG12	01OCT12	110	134	Demolition Above Grade - CC40168												
AEA0731D	Demolition	5	02FEB12	09FEB12	0	02OCT12	18DEC12	134	172	Demolition Below Grade - CC40168												
AEA0731E	Loadout -	5	27MAR12	03APR12	0	29OCT12	12FEB13	120	172	Loadout - CC40168												
AEA0731F	Transition/Final	10	04APR12	19APR12	100	13FEB13	30APR13	172	205	Transition/Final Closure - CC40168												
AEA0732 D4 Building - HS 0079																						
AEA0732A	Plan &	30	01NOV11	28DEC11	15	21NOV11	02APR12	11	52	Plan & Document - HS 0079												
AEA0732B	Deact & Decom	15	28DEC11	24JAN12	0	18JAN12	08AUG12	11	110	Deact & Decom - HS 0079												
AEA0732C	Demolition	5	25JAN12	01FEB12	1,091	09AUG12	01OCT12	110	134	Demolition Above Grade - HS 0079												
AEA0732D	Demolition	5	02FEB12	09FEB12	0	02OCT12	18DEC12	134	172	Demolition Below Grade - HS 0079												
AEA0732E	Loadout - HS	5	27MAR12	03APR12	0	29OCT12	12FEB13	120	172	Loadout - HS 0079												
AEA0732F	Transition/Final	10	04APR12	19APR12	100	13FEB13	30APR13	172	205	Transition/Final Closure - HS 0079												
AER2501 D4-Non-Site Specific Support																						
AER2501A7	D4-400 A	199	04OCT11*	01OCT12	161,468	04OCT10*	29SEP11	-200	-200	D4-400 A Non-Site Specific Support FY11												
AER2501A8	D4-400 A	199	04OCT11	01OCT12	726,714	03OCT11	27SEP12	-1	-1	D4-400 A Non-Site Specific Support FY12												
AER2501A9	D4-400 A	116	02OCT12	01MAY13	726,714	01OCT12	30APR13	-1	-1	D4-400 A Non-Site Specific Support FY13												
<b>RA Field Remediation</b>																						
CNA0502 Remediate Waste Site - 400-37 (Building 4732B)																						
CNA0502A	Excavation	3	01NOV11*	03NOV11	20,179	21NOV11*	28NOV11	11	11	Excavation Process - Rem Wst Site - 400-37 (Costs included)												
CNA0502B	Loadout - Rem	3	02NOV11	07NOV11	0	22NOV11	29NOV11	11	11	Loadout - Rem Wst Site - 400-37 (Costs included)												
CNA0502C	Backfill - Rem	5	16APR12	23APR12	30,324	03MAY12	10MAY12	11	11	Backfill - Rem Wst Site - 400-37 (Costs included)												
CNA0502E	Revegetation -	1	24APR12	24APR12	0	14MAY12	14MAY12	11	11	Revegetation - Rem Wst Site - 400-37 (Costs included)												
CNA0502D	Closeout Smpg	159	08NOV11	23AUG12	17,486	30NOV11	13SEP12	11	11	Closeout Smpg - Rem Wst Site - 400-37 (Costs included)												
CNA0503 Remediate Waste Site - 400-38																						
CNA0503A	Excavation	3	07NOV11	09NOV11	0	29NOV11	01DEC11	11	11	Excavation Process - Rem Wst Site - 400-38												
CNA0503B	Loadout - Rem	3	08NOV11	10NOV11	0	30NOV11	05DEC11	11	11	Loadout - Rem Wst Site - 400-38												
CNA0503C	Backfill - Rem	1	19APR12	19APR12	0	09MAY12	09MAY12	11	11	Backfill - Rem Wst Site - 400-38												
CNA0503E	Revegetation -	1	25APR12	25APR12	3,762	15MAY12	15MAY12	11	11	Revegetation - Rem Wst Site - 400-38												
CNA0503D	Closeout Smpg	159	14NOV11	29AUG12	11,115	06DEC11	19SEP12	11	11	Closeout Smpg - Rem Wst Site - 400-38												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
<b>600 AREA</b>																						
<b>DE Remedial Design</b>																						
CPA0101 Fld. Rem. - 618-10 & 11 Site Fld. Rem.																						
CPA0101D	Design	306	26MAR07	30SEP08	711,369	02MAY07	19NOV08	22	29	Design Remedial Design for 618-11 Burial Ground												
CPA0101B	Design	308	01MAY07*	10NOV08	711,369	02MAY07	19NOV08	1	6	Design Remedial Design for 618-10 Burial Ground												
CPA0101A	Design - 618-10	527	26MAR07	05NOV09	0	29AUG05	17APR08	-312	-312	Design - 618-10 & 11 Site Design												
CPA2201 Design Solution - 618-10 & 11																						
CPA2201B	Design Solution	284	03OCT05A	31JAN07A	195,090	29AUG05	31JAN07	-19	0	Design Solution for 618-11 Burial Ground												
C.2.2.2	600 Area	0		15JAN09*	0		31JAN07*	-713	-713	600 Area Remediation Design Solution - C.2.2.2												
CPA2201A	Design Solution	284	29AUG05A	15JAN09	195,090	29AUG05	31JAN07	0	-391	Design Solution for 618-10 Burial Ground												
C.2.2.2A	DOE Approve -	90	16JAN09	15APR09	0	01FEB07	01MAY07	-713	-713	DOE Approve - C.2.2.2												
<b>RA Field Remediation</b>																						
CPA2301 Remediate Burial Ground 618-10																						
CPA2301A	Excavation -	775	14NOV07*	03OCT11	5,643,165	20NOV08	08FEB12	204	69	Excavation - Rem BG - 618-10												
CPA2401 Remediate Burial Ground 618-11																						
CPA2401A	Excavation -	745	15JAN08*	03OCT11	5,930,897	20NOV08	08FEB12	174	69	Excavation - Rem BG - 618-11												
CPA2401C	Backfill - Rem	120	20MAR12	18OCT12	300,622	24APR12	27NOV12	20	20	Backfill - Rem BG - 618-11												
CPR2501 Fld. Rem.-600 Area Non Site Specific Support																						
CPR2501A1	Fld. Rem.-600	484	04MAY09*	03OCT11	4,414,250	01OCT08*	30SEP09	-116	-400	Fld. Rem.-600 Area Non Site Specific Support												
CPR2501A2	Fld. Rem.-600	200	04OCT10	03OCT11	8,988,189	01OCT09	30SEP10	-200	-200	Fld. Rem.-600 Area Non Site Specific Support												
CPR2501A3	Fld. Rem.-600	199	05OCT10	03OCT11	8,943,341	04OCT10	29SEP11	-1	-1	Fld. Rem.-600 Area Non Site Specific Support												
CPR2501A4	Fld. Rem.-600	199	04OCT11	01OCT12	8,232,030	03OCT11	27SEP12	-1	-1	Fld. Rem.-600 Area Non Site Specific Support												
CPR2501A5	Fld. Rem.-600	49	02OCT12	02JAN13	233,155	01OCT12	31DEC12	-1	-1	Fld. Rem.-600 Area Non Site Specific Support												
<b>SITE SITE</b>																						
<b>DE Remedial Design</b>																						
CQA0101 Fld. Rem. - Miscellaneous Restoration Design																						
CQA0101A	Design -	617	26MAR07	22APR10	0	29AUG05	29SEP08	-312	-312	Design - Miscellaneous Restoration Design												
<b>RA Field Remediation</b>																						
CQR2501 Fld. Rem.-Misc Restoration Non Site Specific Sppt																						
CQR0501A1	Fld. Rem.-Misc	19	01OCT07*	31OCT07	19,226	29AUG05	29SEP05	-417	-417	Fld. Rem.-Misc Restoration Non Site Specific Sppt												
CQR0501A2	Fld. Rem.-Misc	199	01OCT07*	25SEP08	203,133	03OCT05	28SEP06	-398	-398	Fld. Rem.-Misc Restoration Non Site Specific Sppt												
CQR0501A3	Fld. Rem.-Misc	201	01OCT07*	30SEP08	203,133	02OCT06	27SEP07	-199	-201	Fld. Rem.-Misc Restoration Non Site Specific Sppt												
CQR0501A4	Fld. Rem.-Misc	401	01OCT07	30SEP09	205,230	01OCT07	30SEP08	0	-200	Fld. Rem.-Misc Restoration Non Site Specific Sppt												
CQR0501A6	Fld. Rem.-Misc	199	04OCT10*	29SEP11	204,131	01OCT09	30SEP10	-200	-199	Fld. Rem.-Misc Restoration Non Site Sppt												
CQR0501A7	Fld. Rem.-Misc	199	03OCT11	27SEP12	203,133	04OCT10	29SEP11	-199	-199	Fld. Rem.-Misc Restoration Non Site Specific Sppt												
CQR0501A8	Fld. Rem.-Misc	116	01OCT12	30APR13	203,133	03OCT11	27SEP12	-199	-116	Fld. Rem.-Misc Restoration Non Site Specific Sppt												

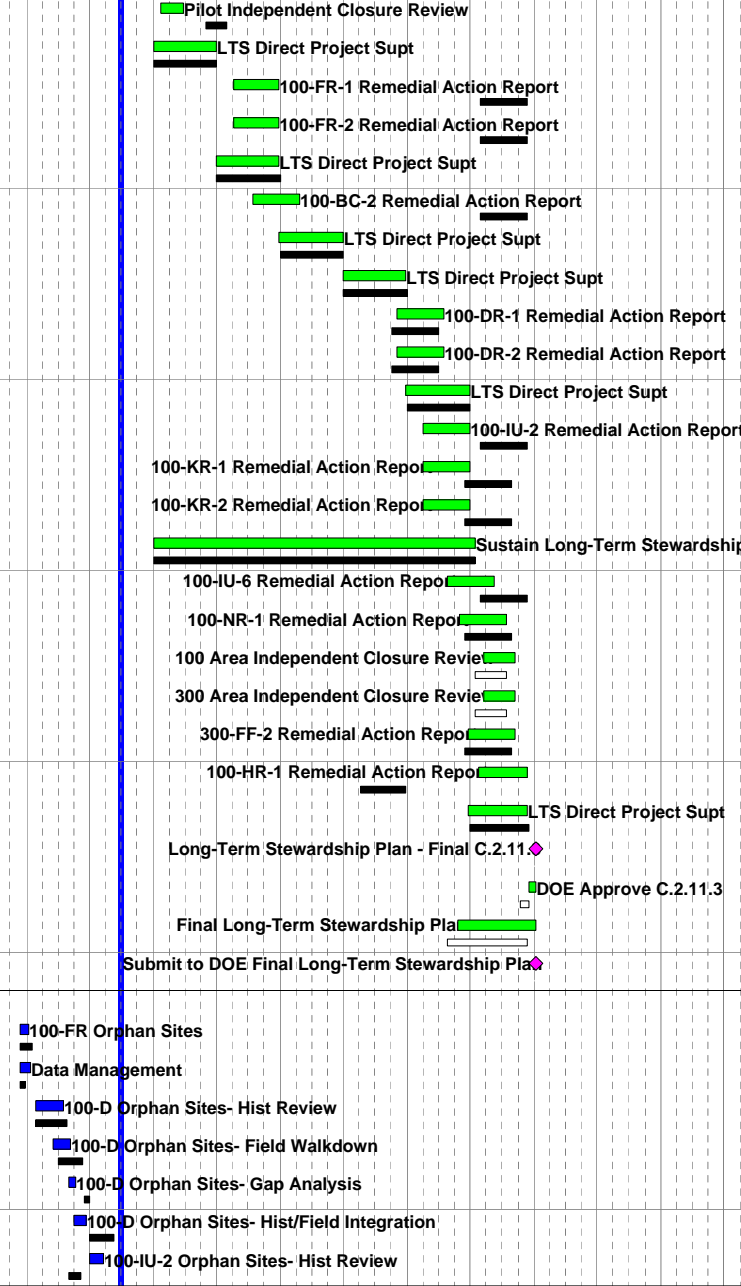


Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
<b>FC Final Closure</b>																						
<b>EAA4001 ES/FC-Final Closure - Independent Closure Rws</b>																						
E40.01.30M	TPA M-16-70	0	13OCT05A		0	27OCT05*		8	8	◆TPA M-16-70 Begin Smpg to Sppt 100/300 BL Risk												
E40.01.01	End State	57	03OCT05A	29DEC05A	173,142	29AUG05	08DEC05	-19	-10	■End State Strategy												
C.2.2.1A	DOE Approve	30	01FEB06A	01FEB06A	0	27AUG05	25SEP05	-158	-129	■DOE Approve C.2.2.1												
C.3.2.1A	DOE Approve	30	29DEC05A	01FEB06A	0	27AUG05	25SEP05	-124	-129	■DOE Approve C.3.2.1												
C.3.2.1	Environ.	0		27FEB06A	0		26AUG05*	-185	-185	◆Environ. Protection & Compliance Plan C.3.2.1												
N40.01.02	100-BC Pilot	175	29AUG05A	20APR06A	140,101	29AUG05	13JUL06	0	46	■100-BC Pilot Risk Assessment												
C.2.3.2	Integr RC WP	0		15MAY06A	0		30SEP06*	138	138	◆Integr RC WP for a CERCLA B/L Risk Asmt C.2.3.2												
E40.01.04A	Interim Areas	345	15MAR06A	01FEB07A	119,976	17JAN07*	02OCT08	168	335	■Interim Areas SAI/RSVP												
N40.01.06	Risk Integration	197	03OCT05A	13FEB07A	383,148	03OCT05*	26SEP06	0	-75	■Risk Integration Work Plan												
C.2.3.2A	DOE Approve	16	26MAR07*	10APR07	0	01OCT06	29NOV06	-176	-132	■DOE Approve C.2.3.2												
E40.01.09	Surface Soil	69	26OCT06A	12APR07	233,043	01OCT07*	24JAN08	184	156	■Surface Soil DQO - Pilot												
N40.01.05	Columbia River	207	29SEP05A	30AUG07	578,399	29AUG05	11SEP06	-18	-195	■Columbia River Component												
N40.01.03	100/300 Area	430	29AUG05A	25OCT07	4,364,563	29AUG05	22OCT07	0	-3	■100/300 Area Baseline Risk Assessment												
E40.01.11	Surface Soil	69	26OCT06A	07NOV07	155,338	02OCT08*	28JAN09	386	242	■Surface Soil DQO - 100 Area												
E40.01.13	Surface Soil	69	26OCT06A	07NOV07	155,338	31AUG11*	22DEC11	967	823	■Surface Soil DQO - 300 Area												
E40.01.15	Surface Soil	69	26OCT06A	07NOV07	155,338	02OCT08*	28JAN09	386	242	■Surface Soil DQO - 400 Area												
E40.01.10	Surface Soil	118	16APR07	12NOV07	345,280	28JAN08	29JUL08	156	141	■Surface Soil Survey - Pilot												
E40.01.04B	Interim Areas	266	16OCT06A	20FEB08	2,630,938	06OCT08	07APR09	394	226	■Interim Areas Sampling												
N40.01.04C	Interim Areas	668	15MAR06A	20FEB08	781,000	17JAN07	18MAY10	168	449	■Interim Areas Evaluation												
N40.01.07	Source Areas	224	25JAN10*	08MAR11	704,235	21APR10	28APR11	49	30	■Source Areas Remedial Investigation Report												
N40.01.08	Source Area	190	02JUN10	12MAY11	110,027	30AUG10	08NOV11	49	99	■Source Area Proposed Plan												
E40.01.17	Surface Soil	69	26OCT06A	06DEC12	155,338	15AUG12*	06DEC12	1,158	0	■Surface Soil DQO - 600 Area												
E40.01.12	Surface Soil	103	24JUL12*	29JAN13	2,177,412	01NOV12*	09MAY13	57	57	■Surface Soil Survey - 100 Area												
E40.01.14	Surface Soil	103	30OCT12*	07MAY13	762,471	20SEP12*	28MAR13	-22	-22	■Surface Soil Survey - 300 Area												
E40.01.30H	Risk	200	01OCT12	30SEP13	108,678			0	0	■Risk Assessment Direct Project Sup												
0041.99065	LT Stewardship	0		15OCT13*	0		29AUG13*	-25	-25	◆LT Stewardship Plan Submitta												
<b>EAA4101 ES/FC-Long-Term Stewardship</b>																						
E41.01.01A	Charter Draft	149	03OCT05A	20MAR06A	27,863	03OCT05*	29JUN06	0	58	■Charter Draft Long-Term Stewardship Plan												
E41.01.02	300 Area	106	20DEC05A	19JUL06A	18,899	03JAN06*	11JUL06	5	-5	■300 Area Complex Evaluation												
E41.01.20	300-FF-1	19	26MAR07*	25APR07	0	29AUG05*	29SEP05	-312	-312	■300-FF-1 Remedial Action Report												
E41.01.01B	Draft	249	13MAR06A	19JUN07	320,096	03JUL06	27SEP07	63	56	■Draft Long-Term Stewardship Plan												
E41.01.07	100-BC-1	123	26MAR07*	30OCT07	105,482	02JAN07*	25SEP07	-46	-20	■100-BC-1 Remedial Action Report												

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										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16				
E41.01.22	Pilot	67	13NOV07	18MAR08	134,196	30JUL08	25NOV08	141	141																
E41.01.30D	LTS Direct	199	01OCT07	25SEP08	64,526	01OCT07	29SEP08	0	1																
E41.01.09	100-FR-1	149	05JAN09*	28SEP09	105,482	29NOV12*	27AUG13	782	782																
E41.01.10	100-FR-2	149	05JAN09	28SEP09	105,482	29NOV12	27AUG13	782	782																
E41.01.30E	LTS Direct	200	29SEP08	28SEP09	64,188	30SEP08	29SEP09	1	1																
E41.01.08	100-BC-2	149	23APR09	21JAN10	105,482	29NOV12	27AUG13	720	720																
E41.01.30F	LTS Direct	201	29SEP09	29SEP10	64,188	30SEP09	30SEP10	1	1																
E41.01.30G	LTS Direct	199	30SEP10	28SEP11	63,850	04OCT10	29SEP11	1	1																
E41.01.15	100-DR-1	149	01AUG11	26APR12	105,482	05JUL11	02APR12	-15	-15																
E41.01.16	100-DR-2	149	01AUG11	26APR12	105,482	05JUL11	02APR12	-15	-15																
E41.01.30H	LTS Direct	199	29SEP11	26SEP12	63,850	03OCT11	27SEP12	1	1																
E41.01.11	100-IU-2	149	05JAN12	27SEP12	105,482	29NOV12	27AUG13	182	182																
E41.01.17	100-KR-1	149	05JAN12*	27SEP12	105,482	27AUG12*	23MAY13	130	130																
E41.01.18	100-KR-2	149	05JAN12	27SEP12	163,460	27AUG12	23MAY13	130	130																
E41.01.03	Sustain	1,014	01OCT07*	24OCT12	166,542	01OCT07*	23OCT12	0	-1																
E41.01.12	100-IU-6	149	17MAY12	14FEB13	105,482	29NOV12	27AUG13	107	107																
E41.01.19	100-NR-1	149	30JUL12	25APR13	163,460	27AUG12	23MAY13	16	16																
E41.01.04	100 Area	101	17DEC12*	18JUN13	335,514	24OCT12*	30APR13	-28	-27																
E41.01.05	300 Area	98	20DEC12	18JUN13	201,320	31OCT12	30APR13	-27	-27																
E41.01.21	300-FF-2	149	19SEP12	18JUN13	165,744	27AUG12	23MAY13	-13	-13																
E41.01.13	100-HR-1	149	20NOV12*	20AUG13	105,482	03JAN11*	26SEP11	-380	-380																
E41.01.30I	LTS Direct	184	19SEP12	20AUG13	59,008	01OCT12	29AUG13	6	6																
C.2.11.3	Long-Term	0		15OCT13*	0		29AUG13*	-47	-47																
C.2.11.3A	DOE Approve	45	01SEP13	15OCT13	0	16JUL13	29AUG13	-47	-47																
E41.01.06	Final	250	18JUL12*	15OCT13	367,003	22MAY12*	20AUG13	-31	-31																
E41.01.06M	Submit to DOE	0		15OCT13	0		29AUG13	-25	-25																
EAA4201 ES/FC-100/300 Area Orphan Site Evaluations																									
N42.01.02	100-FR Orphan	36	29AUG05A	17OCT05A	24,328	29AUG05	31OCT05	0	8																
N42.01.12A	Data	19	29AUG05A	20OCT05A	9,582	29AUG05	29SEP05	0	-12																
N42.01.05A	100-D Orphan	102	21NOV05A	04MAY06A	152,178	21NOV05*	25MAY06	0	12																
N42.01.05B	100-D Orphan	82	07MAR06A	15JUN06A	117,182	03APR06*	24AUG06	15	39																
N42.01.05C	100-D Orphan	19	30MAY06A	13JUL06A	54,673	28AUG06	28SEP06	50	43																
N42.01.05D	100-D Orphan	75	29JUN06A	14SEP06A	35,265	02OCT06	15FEB07	51	83																
N42.01.03A	100-IU-2	56	02OCT06A	21DEC06A	93,165	30MAY06*	14AUG06	-69	-72																



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										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
N42.01.04A	100-IU-6	53	02OCT06A	21DEC06A	93,858	15AUG06*	01NOV06	-26	-27														
N42.01.12B	Data	199	03OCT05A	01FEB07A	89,386	03OCT05	28SEP06	0	-67														
N42.01.03B	100-IU-2	111	09OCT06A	12APR07	284,928	02OCT06*	23APR07	-4	5														
N42.01.06A	100-H Orphan	80	02OCT06A	12APR07	112,806	02NOV06*	08MAY07	19	14														
N42.01.01	100-BC Orphan	25	26MAR07*	07MAY07	14,186	03OCT06*	16NOV06	-93	-91														
N42.01.05E	100-D Orphan	81	26OCT06A	07JUN07	31,217	20FEB07	12JUL07	60	19														
N42.01.04B	100-IU-6	92	10JAN07A	30AUG07	286,918	30MAY07*	17DEC07	78	58														
N42.01.07A	100-K Orphan	84	22JAN07A	30AUG07	152,178	09MAY07*	07NOV07	61	38														
N42.01.03C	100-IU-2	20	04SEP07*	08OCT07	62,200	24APR07	29MAY07	-73	-73														
N42.01.04C	100-IU-6	57	04SEP07	08OCT07	62,626	18DEC07	24JAN08	58	58														
N42.01.06B	100-H Orphan	48	04SEP07*	28NOV07	90,219	28JAN08*	08MAY08	78	89														
N42.01.03D	100-IU-2	32	09OCT07	05DEC07	41,425	30MAY07	27SEP07	-73	-37														
N42.01.04D	100-IU-6	69	09OCT07	05DEC07	41,777	28JAN08	22MAY08	58	93														
N42.01.06C	100-H Orphan	20	29NOV07	08JAN08	54,708	12MAY08	12JUN08	89	88														
N42.01.08A	100-N Orphan	75	01OCT07*	14FEB08	224,193	08NOV07*	12MAY08	23	48														
N42.01.06D	100-H Orphan	32	09JAN08	05MAR08	35,411	16JUN08	23OCT08	88	130														
N42.01.07B	100-K Orphan	55	28NOV07*	10MAR08	117,182	16JUN08*	05NOV08	109	135														
N42.01.07C	100-K Orphan	20	11MAR08	14APR08	54,673	06NOV08*	10DEC08	135	133														
N42.01.03E	100-IU-2	81	06DEC07	01MAY08	36,282	01OCT07	26FEB08	-37	-38														
N42.01.04E	100-IU-6	118	06DEC07	01MAY08	36,556	27MAY08	16OCT08	93	93														
N42.01.08B	100-N Orphan	48	11MAR08*	03JUN08	89,485	11DEC08*	30MAR09	153	163														
N42.01.07D	100-K Orphan	32	15APR08	10JUN08	35,265	11DEC08*	23APR09	133	174														
N42.01.08C	100-N Orphan	20	04JUN08	09JUL08	53,601	31MAR09	04MAY09	163	163														
N42.01.06E	100-H Orphan	81	06MAR08	29JUL08	29,028	27OCT08	19MAR09	130	127														
N42.01.08D	100-N Orphan	32	10JUL08	04SEP08	53,601	05MAY09	26OCT09	163	228														
N42.01.12D	Data	199	01OCT07	25SEP08	92,535	01OCT07	29SEP08	0	1														
N42.01.30C	Orphan Sites	199	01OCT07	25SEP08	284,080	01OCT07	29SEP08	0	1														
N42.02.01B	Interim Area	204	01OCT07*	06OCT08	753,246	01OCT07*	07APR09	0	99														
N42.01.07E	100-K Orphan	81	11JUN08	03NOV08	31,217	27APR09	15SEP09	174	172														
N42.01.10A	300-FF-2	106	13MAY08*	18NOV08	56,185	13MAY08*	06NOV08	0	-6														
N42.01.08E	100-N Orphan	81	08SEP08	03FEB09	26,995	27OCT09	18MAR10	228	224														
N42.01.11A	400 Area	102	10NOV08*	14MAY09	78,646	10NOV08*	07MAY09	0	-4														
N42.01.11B	400 Area	40	18MAY09	28JUL09	61,566	01APR10*	16JUN10	174	177														

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										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16					
N42.01.11C	400 Area	20	29JUL09	01SEP09	56,633	17JUN10	22JUL10	177	177																	
N42.01.12E	Data	200	29SEP08	28SEP09	89,386	30SEP08	29SEP09	1	1																	
N42.01.30D	Orphan Sites	200	29SEP08	28SEP09	274,235	30SEP08	29SEP09	1	1																	
N42.01.11D	400 Area	32	02SEP09	28OCT09	19,632	26JUL10	09NOV10	177	206																	
N42.01.10B	300-FF-2	154	05MAY09*	10FEB10	190,615	05MAY09*	24FEB10	0	7																	
N42.01.10C	300-FF-2	20	11FEB10	18MAR10	229,997	25FEB10	31MAR10	7	7																	
N42.01.11E	400 Area	81	29OCT09	30MAR10	29,330	10NOV10	04APR11	206	202																	
N42.01.10D	300-FF-2	32	22MAR10	13MAY10	56,185	01APR10	22SEP10	7	72																	
N42.01.12F	Data	201	29SEP09	29SEP10	89,386	30SEP09	30SEP10	1	1																	
N42.01.30E	Orphan Sites	201	29SEP09	29SEP10	274,235	30SEP09	30SEP10	1	1																	
N42.01.10E	300-FF-2	81	17MAY10	07OCT10	28,193	23SEP10	15FEB11	72	69																	
N42.02.01A	Interim Area	764	30OCT06A	30MAR11	9,337,009	09JUL08	11JAN11	337	-44																	
N42.02.01G	Interim Area	199	01APR10	30MAR11	4,598,965	13JAN10	11JAN11	-44	-44																	
N42.01.12G	Data	199	30SEP10	28SEP11	89,386	04OCT10	29SEP11	1	1																	
N42.01.30F	Orphan Sites	199	30SEP10	28SEP11	274,235	04OCT10	29SEP11	1	1																	
N42.02.01C	Interim Area	528	07MAY09*	29DEC11	3,389,870	07OCT09*	06OCT11	84	-44																	
N42.02.01D	Interim Area	80	03JAN12	22MAY12	376,689	10OCT11	27FEB12	-44	-49																	
N42.02.01E	Interim Area	32	23MAY12	19JUL12	188,434	28FEB12	20NOV12	-49	69																	
N42.01.30G	Orphan Sites	199	29SEP11	26SEP12	274,235	03OCT11	27SEP12	1	1																	
N42.10.12H	Data	199	29SEP11	26SEP12	89,386	03OCT11	27SEP12	1	1																	
N42.02.01F	Interim Area	81	23JUL12*	13DEC12	188,434	09JUL12*	26MAR13	-8	54																	
<b>ESA2901 ES/FC-Management and Support</b>																										
ESA2901D	Management &	199	01OCT07	25SEP08	424,733	01OCT07	30SEP08	0	2																	
ESA2901E	Management &	201	29SEP08	29SEP09	422,553	01OCT08	30SEP09	2	1																	
ESA2901F	Management &	200	30SEP09	29SEP10	422,553	01OCT09	30SEP10	1	1																	
ESA2901G	Management &	199	30SEP10	28SEP11	420,374	04OCT10	29SEP11	1	1																	
ESA2901H	Management &	199	29SEP11	26SEP12	420,374	03OCT11	27SEP12	1	1																	
ESA2901I	Management &	200	01OCT12	30SEP13	422,452	01OCT12	29AUG13	0	-16																	
ESA2901J	Management &	9	01OCT13	15OCT13	19,012			0	0																	
<b>MS MS/GS-Mission Support/General Support</b>																										
<b>FAA MS/GS-Project Integration</b>																										
C.4.1	Gov't-Furnished	0		15MAY06A	0		07FEB06*	-97	-97																	
C.4.1A	DOE Approve	42	26MAR07	06MAY07	0	08FEB06	09MAR06	-411	-423																	

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WCH-181  
Rev. 0



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year													
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
<b>MS/GS-Project Integration</b>																							
FAA0101A9	MS/GS-Project	200	01OCT12	30SEP13	5,205,782	01OCT12	29AUG13	0	-16														
FAA0101AA	MS/GS-Project	9	01OCT13	15OCT13	218,574			0	0														
<b>MS/GS-Project Services</b>																							
FBA0101A9	MS/GS-Project	200	01OCT12	30SEP13	15,744,208	01OCT12	29AUG13	0	-16														
FBA0101AA	MS/GS-Project	9	01OCT13	15OCT13	760,977			0	0														
<b>MS/GS-ESHQ</b>																							
FCA0101A9	MS/GS-SHQ	200	01OCT12	30SEP13	9,017,131	01OCT12	29AUG13	0	-16														
FCA0101AA	MS/GS-SHQ	9	01OCT13	15OCT13	291,516			0	0														
<b>MS/GS-Engineering</b>																							
FDA0101A9	MS/GS-Enginee	200	01OCT12	30SEP13	1,271,000	01OCT12	29AUG13	0	-16														
FDA0101AA	MS/GS-Enginee	9	01OCT13	15OCT13	55,131			0	0														
<b>MS/GS-Reg Integration and Outreach</b>																							
FEA0101A9	MS/GS-Reg	200	01OCT12	30SEP13	1,971,861	01OCT12	29AUG13	0	-16														
FEA0101AA	MS/GS-Reg	9	01OCT13	15OCT13	73,807			0	0														
<b>MS/GS-Office of the Project Gen. Manager</b>																							
FFA0101A9	MS/GS-Office	200	01OCT12	30SEP13	3,915,168	01OCT12	29AUG13	0	-16														
FFA0101AA	MS/GS-Office	9	01OCT13	15OCT13	136,390			0	0														
<b>Z3 Contingency</b>																							
<b>JAA0101 Contingency</b>																							
JAA0101A1	Contingency	19	15MAY06A	15MAY06A	0	29AUG05	29SEP05	-141	-123														
JAA0101A2	Contingency	199	15MAY06A	19OCT06A	0	03OCT05	28SEP06	-122	-12														
<b>Z Contract End</b>																							
<b>FC Final Closure</b>																							
<b>EAA ES/FC-End State/Final Closure</b>																							
0041.99085	Field Work	0		18JUN13*	0		30APR13*	-27	-27														
0041.99095	Contract End	0		15OCT13*	0		29AUG13*	-25	-25														

**APPENDIX P**  
**SCENARIO 3 VARIANCE SCHEDULE**



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16																																				
										Gantt Chart Area																																				
<b>MARM Scenario 3_FINAL</b>																																														
<b>100 B/C AR</b>																																														
<b>DE Remedial Design</b>																																														
CAD0101 Fld. Rem.-100 B/C Area Design																																														
CAD0101A	Fld. Rem.-100	199	29AUG05A	23OCT06A	8,996	03OCT05*	28SEP06	19	-13	Fld. Rem.-100 B/C Design																																				
<b>RA Field Remediation</b>																																														
CAA0301 Confirmatory Sampling Site - 126-B-2																																														
CAA0301A	Work	50	05OCT06A	31JAN07A	19,521	02OCT06*	03JAN07	-3	-16	Work Instructions - CS Site - 126-B-2																																				
CAA0301B	Smplg and	25	31JAN07A	31JAN07A	40,126	04JAN07	15FEB07	-15	9	Smplg and Analysis - CS Site - 126-B-2																																				
CAA0301C	RSVP or RTD	63	31JAN07A	22MAR07A	10,137	20FEB07	18JUL07	10	65	RSVP or RTD Report - CS Site - 126-B-2																																				
CAA0302 Confirmatory Sampling Site - 1607-B1																																														
CAA0302A	Work	57	04OCT06A	24JAN07A	19,521	05SEP06*	04DEC06	-17	-27	Work Instructions - CS Site - 1607-B1																																				
CAA0302B	Smplg and	25	26MAR07	07MAY07	25,530	05DEC06	22JAN07	-59	-59	Smplg and Analysis - CS Site - 1607-B1																																				
CAA0302C	RSVP or RTD	77	08MAY07	24SEP07	10,137	23JAN07	20JUN07	-59	-52	RSVP or RTD Report - CS Site - 1607-B1																																				
CAA0307 Confirmatory Sampling Site - 100-B-21																																														
CAA0307A	Work	50	01SEP05A	16FEB06A	45,192	01OCT07*	02JAN08	414	373	Work Instructions - CS Site - 100-B-21																																				
CAA0307B	Smplg and	91	01SEP05A	16FEB06A	144,183	15JAN08	27FEB08	470	404	Smplg and Analysis - CS Site - 100-B-21																																				
CAA0307C	RSVP or RTD	84	01SEP05A	16FEB06A	60,812	28FEB08	28JUL08	495	488	RSVP or RTD Report - CS Site - 100-B-21																																				
CAA0308 Confirmatory Sampling Site - 100-B-20																																														
CAA0308A	Work	50	05JAN06A	13MAR06A	7,532	31AUG05*	30NOV05	-67	-54	Work Instructions - CS Site - 100-B-20																																				
CAA0308B	Smplg and	25	05JAN06A	13MAR06A	25,532	10JAN06	22FEB06	2	-10	Smplg and Analysis - CS Site - 100-B-20																																				
CAA0308C	RSVP or RTD	84	27FEB06A	27SEP06A	10,137	23FEB06	24JUL06	-1	-37	RSVP or RTD Report - CS Site - 100-B-20																																				
CAA0309 Confirmatory Sampling Site - 118-B-8:1																																														
CAA0309A	Work	50	05JAN06A	05JAN06A	7,532	03OCT05*	04JAN06	-50	-1	Work Instructions - CS Site - 118-B-8:1																																				
CAA0309B	Smplg and	25	05JAN06A	05JAN06A	25,532	12JAN06	27FEB06	4	28	Smplg and Analysis - CS Site - 118-B-8:1																																				
CAA0309C	RSVP or RTD	84	03OCT05A	05JAN06A	10,137	28FEB06	26JUL06	79	112	RSVP or RTD Report - CS Site - 118-B-8:1																																				
CAA0310 Confirmatory Sampling Site - 118-C-3:3																																														
CAA0310B	Smplg and	25	03JAN06A	27MAR06A	25,532	17JAN06	01MAR06	8	-14	Smplg and Analysis - CS Site - 118-C-3:3																																				
CAA0310A	Work	50	03JAN06A	28MAR06A	7,532	05OCT05*	09JAN06	-46	-44	Work Instructions - CS Site - 118-C-3:3																																				
CAA0310C	RSVP or RTD	84	27FEB06A	26APR06A	10,137	02MAR06	31JUL06	3	52	RSVP or RTD Report - CS Site - 118-C-3:3																																				
<table border="0"> <tr> <td>Start Date</td> <td>31JAN05</td> <td></td> <td>Early Bar</td> </tr> <tr> <td>Finish Date</td> <td>15OCT13</td> <td></td> <td>Target Bar</td> </tr> <tr> <td>Data Date</td> <td>26MAR07</td> <td></td> <td>Progress Bar</td> </tr> <tr> <td>Run Date</td> <td>02JUL07 14:55</td> <td></td> <td>Critical Activity</td> </tr> </table>											Start Date	31JAN05		Early Bar	Finish Date	15OCT13		Target Bar	Data Date	26MAR07		Progress Bar	Run Date	02JUL07 14:55		Critical Activity	<table border="0"> <tr> <td>MARM</td> <td>Sheet 1 of 128 02JUL07 14:55</td> </tr> <tr> <td>River Corridor Closure Contract</td> <td></td> </tr> <tr> <td>300 Area Utility Relocation Project</td> <td></td> </tr> <tr> <td>Variance</td> <td></td> </tr> </table>												MARM	Sheet 1 of 128 02JUL07 14:55	River Corridor Closure Contract		300 Area Utility Relocation Project		Variance	
Start Date	31JAN05		Early Bar																																											
Finish Date	15OCT13		Target Bar																																											
Data Date	26MAR07		Progress Bar																																											
Run Date	02JUL07 14:55		Critical Activity																																											
MARM	Sheet 1 of 128 02JUL07 14:55																																													
River Corridor Closure Contract																																														
300 Area Utility Relocation Project																																														
Variance																																														
© Primavera Systems, Inc.											<p style="text-align: center;"><b>Appendix P</b></p> <p style="text-align: center;"><b>Scenario 3</b></p>																																			

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
<b>CAA0311 Confirmatory Sampling Site - 100-B-24</b>																						
CAA0311A	Work	50	04OCT05A	08DEC05A	7,532	02OCT06*	03JAN07	198	211	■ Work Instructions - CS Site - 100-B-24												
CAA0311B	Smpg and	25	17JAN06A	14MAR06A	25,532	03JAN08	14FEB08	392	385	■ Smpg and Analysis - CS Site - 100-B-24												
CAA0311C	RSVP or RTD	84	27FEB06A	21SEP06A	10,137	19FEB08	16JUL08	395	362	■ RSVP or RTD Report - CS Site - 100-B-24												
<b>CAA0312 Confirmatory Sampling Site - 100-B-25</b>																						
CAA0312A	Work	50	04OCT05A	30NOV05A	7,532	02OCT06*	03JAN07	198	216	■ Work Instructions - CS Site - 100-B-25												
CAA0312B	Smpg and	25	11JAN06A	11JAN06A	25,532	08JAN08	20FEB08	397	421	■ Smpg and Analysis - CS Site - 100-B-25												
CAA0312C	RSVP or RTD	84	11JAN06A	11JAN06A	10,137	21FEB08	21JUL08	422	505	■ RSVP or RTD Report - CS Site - 100-B-25												
<b>CAA0313 Confirmatory Sampling Site - 100-B-26</b>																						
CAA0313A	Work	50	04OCT05A	08DEC05A	7,532	02OCT06*	03JAN07	198	211	■ Work Instructions - CS Site - 100-B-26												
CAA0313B	Smpg and	25	17JAN06A	14MAR06A	25,532	10JAN08	25FEB08	396	389	■ Smpg and Analysis - CS Site - 100-B-26												
CAA0313C	RSVP or RTD	84	27FEB06A	21SEP06A	10,137	26FEB08	23JUL08	399	366	■ RSVP or RTD Report - CS Site - 100-B-26												
<b>CAB0402 Remediate Liquid Waste Site - 100-B-8</b>																						
CAB0402E	Revegetation -	260	02JAN07A	22FEB07A	0	28NOV05*	16MAR06	-217	-187	■ Revegetation - Rem Liq WS -100-B-8 (inc 118-B-2)												
<b>CAB0404 Rem LW Site -100-B-15(116B7,132B6,132C2,100C6)</b>																						
CAB0404E	Revegetation -	215	02JAN07A	22FEB07A	269,475	06SEP05*	06SEP05	-262	-291	■ Revegetation - Rem Liq Wst Site - 100-B-15 (inc												
<b>CAB0501 Remediate Waste Site - 100-B-16</b>																						
CAB0501C	Backfill - Rem	2	27FEB06A	27FEB06A	9,345	22NOV05*	28NOV05	-49	-48	■ Backfill - Rem Wst Site - 100-B-16												
CAB0501E	Revegetation -	65	05SEP06A	12DEC07	761	29NOV05	23MAR06	-153	-345	■ Revegetation - Rem Wst Site - 100-B-16												
<b>CAB0502 Remediate Waste Site - 118-B-8</b>																						
CAB0502A	Excavation	3	03JAN11*	05JAN11	0	01OCT09*	06OCT09	-247	-247	■ Excavation Process - Rem Wst Site - 118-B-8												
CAB0502B	Loadout - Rem	3	31JAN11	02FEB11	0	29OCT09	03NOV09	-247	-247	■ Loadout - Rem Wst Site - 118-B-8												
CAB0502D	Closeout Smpg	159	03FEB11	15NOV11	0	04NOV09	23AUG10	-247	-247	■ Closeout Smpg - Rem Wst Site - 118-B-8												
CAB0502C	Backfill - Rem	1	16NOV11	16NOV11	0	24AUG10	24AUG10	-247	-247	■ Backfill - Rem Wst Site - 118-B-8												
CAB0502E	Revegetation -	1	17NOV11	17NOV11	0	25AUG10	25AUG10	-247	-247	■ Revegetation - Rem Wst Site - 118-B-8												
<b>CAB0503 Remediate Waste Site - 120-B-1</b>																						
CAB0503A	Excavation	8	06JUN06A	13JUN06A	17,170	26OCT05*	31OCT05	-120	-122	■ Excavation Process - Rem Wst Site - 120-B-1												
CAB0503C	Backfill - Rem	3	13JUN06A	13JUN06A	2,343	19SEP06	19SEP06	54	54	■ Backfill - Rem Wst Site - 120-B-1												
CAB0503D	Closeout Smpg	129	05JUN06A	28SEP06A	19,223	01DEC05	18SEP06	-100	-7	■ Closeout Smpg - Rem Wst Site - 120-B-1												
CAB0503B	Loadout - Rem	17	30MAY06A	02OCT06A	49,035	28NOV05	30NOV05	-100	-167	■ Loadout - Rem Wst Site - 120-B-1												
CAB0503E	Revegetation -	260	05SEP06A	20DEC07	306	20SEP06	20SEP06	9	-250	■ Revegetation - Rem Wst Site - 120-B-1												
<b>CAB0504 Remediate Waste Site - 126-B-3, 184 B Coal Pit</b>																						
CAB0504B	Loadout - Rem	79	12DEC05A	27MAR06A	9,751	03OCT05*	03OCT05	-38	-94	■ Loadout - Rem Wst Site - 126-B-3												
CAB0504D	Closeout Smpg	222	29AUG05A	10AUG06A	72,770	20DEC05*	04OCT06	62	30	■ Closeout Smpg - Rem Wst Site - 126-B-3												
CAB0504C	Backfill - Rem	22	03OCT05A	02OCT06A	309,061	05OCT06	24OCT06	202	13	■ Backfill - Rem Wst Site - 126-B-3												
CAB0504E	Revegetation -	260	05SEP06A	03JAN07A	4,547	25OCT06	30OCT06	29	-33	■ Revegetation - Rem Wst Site - 126-B-3												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year																
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16					
<b>CAB0505 Remediate Waste Site - 128-B-3,Coal Ash,Demo Wst</b>																										
CAB0505B	Loadout - Rem	16	13DEC05A	03JUL06A	134,976	31OCT05	31OCT05	-23	-133	■ Loadout - Rem Wst Site - 128-B-3																
CAB0505A	Excavation	1	31OCT05A	02OCT06A	732,888	03OCT05*	03OCT05	-16	-199	■ Excavation Process - Rem Wst Site - 128-B-3																
CAB0505D	Closeout Smpg	157	09JAN06A	16NOV06A	72,007	13FEB06*	27NOV06	20	3	■ Closeout Smpg - Rem Wst Site - 128-B-3																
CAB0505C	Backfill - Rem	4	18DEC06A	30JAN07A	65,190	28NOV06	04DEC06	-11	-30	■ Backfill - Rem Wst Site - 128-B-3																
CAB0505E	Revegetation -	260	05SEP06A	26FEB07A	6,277	05DEC06	05DEC06	50	-43	■ Revegetation - Rem Wst Site - 128-B-3																
<b>CAB0506 Remediate Waste Site - 132-B-2</b>																										
CAB0506A	Excavation	3	03JAN11*	05JAN11	0	01OCT09*	06OCT09	-247	-247	■ Excavation Process - Rem Wst Site - 132-B-2																
CAB0506B	Loadout - Rem	3	31JAN11	02FEB11	0	29OCT09	03NOV09	-247	-247	■ Loadout - Rem Wst Site - 132-B-2																
CAB0506D	Closeout Smpg	159	03FEB11	15NOV11	0	04NOV09	23AUG10	-247	-247	■ Closeout Smpg - Rem Wst Site - 132-B-2																
CAB0506C	Backfill - Rem	1	16NOV11	16NOV11	0	24AUG10	24AUG10	-247	-247	■ Backfill - Rem Wst Site - 132-B-2																
CAB0506E	Revegetation -	1	17NOV11	17NOV11	0	25AUG10	25AUG10	-247	-247	■ Revegetation - Rem Wst Site - 132-B-2																
<b>CAB0507 Remediate Waste Site - 600-230</b>																										
CAB0507A	Excavation	2	30MAY06A	22JUN06A	1,964	02OCT06*	03OCT06	69	56	■ Excavation Process - Rem Wst Site - 600-230																
CAB0507B	Loadout - Rem	2	30MAY06A	22JUN06A	298	30OCT06	31OCT06	85	72	■ Loadout - Rem Wst Site - 600-230																
CAB0507C	Backfill - Rem	1	30MAY06A	22JUN06A	287	21AUG07	21AUG07	246	232	■ Backfill - Rem Wst Site - 600-230																
CAB0507D	Closeout Smpg	159	30MAY06A	22JUN06A	264	01NOV06	20AUG07	87	231	■ Closeout Smpg - Rem Wst Site - 600-230																
CAB0507E	Revegetation -	205	05SEP07*	11SEP08	23	22AUG07	22AUG07	-7	-211	■ Revegetation - Rem Wst Site - 600-230																
<b>CAB0508 Remediate Waste Site - 1607-B5</b>																										
CAB0508B	Loadout - Rem	11	30APR07	16MAY07	7,306	07NOV06	13NOV06	-93	-100	■ Loadout - Rem Wst Site - 1607-B5																
CAB0508A	Excavation	43	02APR07*	14JUN07	45,312	10OCT06*	17OCT06	-93	-131	■ Excavation Process - Rem Wst Site - 1607-B5																
CAB0508D	Closeout Smpg	57	17MAY07	28AUG07	38,446	14NOV06	30AUG07	-100	2	■ Closeout Smpg - Rem Wst Site - 1607-B5																
CAB0508C	Backfill - Rem	4	29AUG07	05SEP07	9,886	04SEP07	05SEP07	2	0	■ Backfill - Rem Wst Site - 1607-B5																
CAB0508E	Revegetation -	260	06SEP07	23DEC08	1,203	06SEP07	06SEP07	0	-259	■ Revegetation - Rem Wst Site - 1607-B5																
<b>CAB0509 Remediate Waste Site - 100-B-17</b>																										
CAB0509B	Loadout - Rem	11	29OCT07	14NOV07	0	02MAR06	08MAR06	-333	-340	■ Loadout - Rem Wst Site - 100-B-17																
CAB0509A	Excavation	35	01OCT07*	03DEC07	16,795	01FEB06*	08FEB06	-333	-363	■ Excavation Process - Rem Wst Site - 100-B-17																
CAB0509D	Closeout Smpg	57	15NOV07	04MAR08	10,137	09MAR06	20DEC06	-340	-238	■ Closeout Smpg - Rem Wst Site - 100-B-17																
CAB0509C	Backfill - Rem	4	05MAR08	11MAR08	0	21DEC06	27DEC06	-238	-240	■ Backfill - Rem Wst Site - 100-B-17																
CAB0509E	Revegetation -	260	19JUL07	03NOV08	0	28DEC06	28DEC06	-112	-371	■ Revegetation - Rem Wst Site - 100-B-17																
<b>CAB0510 Remediate Waste Site - 100-B-14</b>																										
CAB0510B	Loadout - Rem	47	31JAN06A	16NOV06A	18,330	02JUL12	09JUL12	1,283	1,124	■ Loadout - Rem Wst Site - 100-B-14																
CAB0510C	Backfill - Rem	30	28NOV05A	21DEC06A	3,930,827	25APR13	29APR13	1,480	1,267	■ Backfill - Rem Wst Site - 100-B-14																
CAB0510D	Closeout Smpg	210	03OCT05A	14MAR07A	435,993	10JUL12	24APR13	1,351	1,222	■ Closeout Smpg - Rem Wst Site - 100-B-14																
CAB0510A	Excavation	42	08FEB06A	20MAR07A	204,172	04JUN12*	07JUN12	1,262	1,044	■ Excavation Process - Rem Wst Site - 100-B-14																

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year																						
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16											
CAB0510E	Revegetation -	261	02JAN07A	14NOV07	39,484	30APR13	30APR13	1,265	1,088																							
<b>CAB0511 Remediate Waste Site - 128-B-2</b>																																
CAB0511D	Closeout Smpg	69	29AUG05A	04JAN06A	31,674	29AUG05	27DEC05	0	-4																							
CAB0511C	Backfill - Rem	7	03JAN06A	09JAN06A	40,757	28DEC05	29DEC05	-2	-4																							
CAB0511B	Loadout - Rem	2	02OCT06A	02OCT06A	0	29AUG05	30AUG05	-218	-217																							
CAB0511E	Revegetation -	65	05SEP06A	26FEB07A	2,068	06SEP05*	28DEC06	-199	-31																							
<b>CAB0512 Remediate Waste Site - 100-B-27</b>																																
CAB0512B	Loadout - Rem	11	30APR07	16MAY07	7,306	28NOV06	04DEC06	-83	-90																							
CAB0512A	Excavation	35	02APR07*	31MAY07	19,811	26OCT06*	01NOV06	-83	-114																							
CAB0512D	Closeout Smpg	57	17MAY07	28AUG07	19,223	05DEC06	19SEP07	-90	12																							
CAB0512C	Backfill - Rem	4	29AUG07	05SEP07	3,510	20SEP07	24SEP07	12	10																							
CAB0512E	Revegetation -	259	06SEP07	22DEC08	429	25SEP07	25SEP07	10	-248																							
<b>CAB0513 Remediate Waste Site - 1607-B2</b>																																
CAA0303C	Backfill - Rem	182	31OCT05A	21NOV05A	54,350	15JUN06	19JUN06	124	113																							
CAA0303E	Revegetation -	260	05SEP06A	22FEB07A	5,687	20JUN06	20JUN06	-42	-134																							
CAA0303D	Closeout Smpg	8	29AUG05A	20MAR07A	60,648	29AUG05	14JUN06	0	-151																							
<b>CAB0514 Remediate Waste Site - 100-B-18</b>																																
CAB0514D	Closeout Smpg	48	26MAR07	18JUN07	19,223	21DEC06	08OCT07	-49	62																							
CAB0514C	Backfill - Rem	5	19JUN07	26JUN07	2,104	09OCT07	10OCT07	62	59																							
CAB0514B	Loadout - Rem	11	05DEC07	26DEC07	3,653	14DEC06	20DEC06	-194	-201																							
CAB0514A	Excavation	35	05NOV07*	10JAN08	18,625	14NOV06*	20NOV06	-194	-225																							
CAB0514E	Revegetation -	259	27JUN07	09OCT08	260	11OCT07	11OCT07	59	-199																							
<b>CAB0515 Remediate Waste Site - 100-B-19</b>																																
CAB0515D	Closeout Smpg	48	26MAR07	18JUN07	19,223	15JAN07	24OCT07	-39	72																							
CAB0515C	Backfill - Rem	6	19JUN07	27JUN07	2,104	25OCT07	29OCT07	72	68																							
CAB0515B	Loadout - Rem	11	26DEC07	15JAN08	3,653	08JAN07	11JAN07	-194	-201																							
CAB0515A	Excavation	35	26NOV07*	29JAN08	18,625	05DEC06*	11DEC06	-194	-225																							
CAB0515E	Revegetation -	259	28JUN07	13OCT08	260	30OCT07	30OCT07	68	-190																							
<b>CAB0516 Remediate Waste Site - 100-B-22</b>																																
CAB0516D	Closeout Smpg	48	02OCT06A	24MAY07	19,223	08MAY07	25FEB08	119	148																							
CAB0516B	Loadout - Rem	11	15JAN08	31JAN08	3,653	01MAY07	07MAY07	-140	-147																							
CAB0516C	Backfill - Rem	5	04FEB08	11FEB08	2,104	26FEB08	27FEB08	12	9																							
CAB0516A	Excavation	35	12DEC07*	14FEB08	18,625	03APR07*	09APR07	-140	-171																							
CAB0516E	Revegetation -	260	21JUN07	07OCT08	260	28FEB08	28FEB08	136	-123																							

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year													
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
<b>CAB0517 Remediate Waste Site - 1607-B7</b>																							
CAB0517E	Revegetation -	245	01OCT07*	18DEC08	168	21JUN06	21JUN06	-255	-499														
<b>CAB0518 Remediate Waste Site - 100-B-21</b>																							
CAB0518D	Closeout Smpgl	48	06NOV06A	26APR07	19,223	06MAR07	17DEC07	63	128														
CAB0518C	Backfill - Rem	5	30APR07	07MAY07	2,104	18DEC07	09JAN08	128	134														
CAB0518B	Loadout - Rem	11	23APR07	09MAY07	3,653	24JAN07	05MAR07	-49	-38														
CAB0518A	Excavation	35	26MAR07*	23MAY07	20,427	21DEC06*	01FEB07	-49	-62														
CAB0518E	Revegetation -	260	08MAY07	21AUG08	260	10JAN08	15JAN08	134	-123														
<b>CAB0519 Remediate Waste Site - 600-270</b>																							
CAB0519D	Closeout Smpgl	60	29AUG05A	14DEC05A	27,232	01FEB06	01FEB06	84	25														
CAB0519C	Backfill - Rem	17	29NOV05A	16JAN06A	24,962	02FEB06	06MAR06	35	27														
CAB0519E	Revegetation -	2	31JAN06A	07FEB06A	10,192	07MAR06	13MAR06	19	18														
CAB0519B	Loadout - Rem	3	15NOV05A	02OCT06A	8,214	28NOV05*	31JAN06	5	-135														
<b>CAB0601 Remediate Burial Ground - 118-B-2</b>																							
CAB0601E	Revegetation -	260	02JAN07A	22FEB07A	6,670	28NOV05*	28DEC05	-217	-230														
<b>CAB0602 Remediate Burial Ground - 118-B-7</b>																							
CAB0602E	Revegetation -	260	04SEP07*	18DEC08	0	28NOV05*	28DEC05	-353	-596														
<b>CAC0501 Remediate Waste Site - 100-B-1</b>																							
CAC0501E	Revegetation -	4	21FEB06A	23FEB06A	1,741	16AUG06	16AUG06	99	97														
CAC0501D	Closeout Smpgl	135	29AUG05A	26APR06A	25,194	29SEP05*	18JUL06	18	45														
CAC0501C	Backfill - Rem	16	01DEC05A	20MAR07A	325,422	19JUL06	15AUG06	125	-117														
<b>CAC0502 Remediate Waste Site - 100-C-7</b>																							
CAC0502A	Excavation	62	12JAN06A	17JUL08	1,042,143	27JUN11*	22DEC11	1,090	686														
CAC0502B	Loadout - Rem	4	12JAN06A	17JUL08	646,589	26JUL11	01MAR12	1,106	722														
CAC0502D	Closeout Smpgl	57	21JUL08	28OCT08	161,058	05MAR12	13DEC12	722	824														
CAC0502C	Backfill - Rem	45	29OCT08	22JAN09	0	17DEC12	19MAR13	824	829														
CAC0502E	Revegetation -	221	13AUG08	21SEP09	12,057	20MAR13	30APR13	917	720														
<b>CAC0503 Remediate Waste Site - 116-C-3</b>																							
CAC0503A	Excavation	39	12MAR07A	25APR07	591,787	31OCT05*	03NOV05	-269	-292														
CAC0503B	Loadout - Rem	32	09APR07	04JUN07	813,027	30NOV05	06DEC05	-269	-297														
CAC0503D	Closeout Smpgl	98	26MAR07	17SEP07	35,164	07DEC05	21SEP06	-257	-196														
CAC0503C	Backfill - Rem	3	18SEP07	20SEP07	101,654	25SEP06	26SEP06	-196	-197														
CAC0503E	Revegetation -	259	24SEP07	12JAN09	2,248	27SEP06	27SEP06	-197	-455														
<b>CAC0505 Remediate Waste Site - 100-C-9</b>																							
CAC0505B	Loadout - Rem	14	04APR06A	20APR06A	32,877	13MAR12	02MAY12	1,186	1,205														
CAC0505A	Excavation	14	04APR06A	20MAR07A	106,204	13FEB12*	27FEB12	1,170	986														







Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
<b>DD D4</b>																						
<b>AAB0704 D4 Building - 190DR (See Also WS 100-D-60)</b>																						
AAB0704E	Loadout -	80	29AUG05A	07SEP06A	90,538	03OCT05*	28FEB06	19	-107	■ Loadout - 190DR												
AAB0704F	Transition/Final	101	26MAR07	20SEP07	91,201	01MAR06	28AUG06	-213	-213	■ Transition/Final Closure - 190DR												
<b>AAB0705 D4 Building - MO-200</b>																						
AAB0705A	Plan &	23	24APR06A	26APR06A	2,783	18APR11*	25MAY11	995	1,015	■ Plan & Document - MO-200												
AAB0705B	Deact & Decom	37	27APR06A	04MAY06A	0	03MAY11	07JUL11	1,001	1,033	■ Deact & Decom - MO-200												
AAB0705C	Demolition	9	08MAY06A	11MAY06A	11,700	11JUL11	25JUL11	1,033	1,038	■ Demolition Above Grade - MO-200												
AAB0705D	Demolition	14	15MAY06A	18MAY06A	0	26JUL11	17AUG11	1,038	1,048	■ Demolition Below Grade - MO-200												
AAB0705E	Loadout -	19	18MAY06A	23MAY06A	0	02AUG11	01SEP11	1,039	1,055	■ Loadout - MO-200												
AAB0705F	Transition/Final	14	24MAY06A	25MAY06A	1,070	06SEP11	28SEP11	1,055	1,067	■ Transition/Final Closure - MO-200												
<b>AAB0708 D4 Building - MO-561</b>																						
AAB0708A	Plan &	23	24APR06A	26APR06A	2,791	18APR11*	25MAY11	995	1,015	■ Plan & Document - MO-561												
AAB0708B	Deact & Decom	37	27APR06A	04MAY06A	0	03MAY11	07JUL11	1,001	1,033	■ Deact & Decom - MO-561												
AAB0708C	Demolition	9	01MAY06A	04MAY06A	12,284	11JUL11	25JUL11	1,037	1,042	■ Demolition Above Grade - MO-561												
AAB0708D	Demolition	14	08MAY06A	11MAY06A	0	26JUL11	17AUG11	1,042	1,052	■ Demolition Below Grade - MO-561												
AAB0708E	Loadout -	19	15MAY06A	18MAY06A	0	02AUG11	01SEP11	1,042	1,057	■ Loadout - MO-561												
AAB0708F	Transition/Final	14	22MAY06A	25MAY06A	1,123	06SEP11	28SEP11	1,057	1,067	■ Transition/Final Closure - MO-561												
<b>AAB0710 D4 Building - MO-829</b>																						
AAB0710A	Plan &	23	16JAN07A	05APR07	2,959	18APR11*	25MAY11	850	827	■ Plan & Document - MO-829												
AAB0710B	Deact & Decom	8	02JUL07*	16JUL07	0	03MAY11	07JUL11	766	795	■ Deact & Decom - MO-829												
AAB0710C	Demolition	8	17JUL07	30JUL07	12,739	11JUL11	25JUL11	795	796	■ Demolition Above Grade - MO-829												
AAB0710D	Demolition	8	31JUL07	13AUG07	0	26JUL11	17AUG11	796	802	■ Demolition Below Grade - MO-829												
AAB0710E	Loadout -	16	01AUG07	28AUG07	0	02AUG11	01SEP11	799	802	■ Loadout - MO-829												
AAB0710F	Transition/Final	16	29AUG07	26SEP07	1,165	06SEP11	28SEP11	802	800	■ Transition/Final Closure - MO-829												
<b>AAB1002 D4 Retention Basin - 188D</b>																						
AAB1002A	Plan &	50	05JAN11	04APR11	82,778	06JAN11	05APR11	1	1	■ Plan & Document - 188D												
AAB1002B	Deact & Decom	80	09FEB11	30JUN11	1,728	10FEB11	05JUL11	1	1	■ Deact & Decom - 188D												
AAB1002C	Demolition	20	05JUL11	08AUG11	12,241	06JUL11	09AUG11	1	1	■ Demolition Above Grade - 188D												
AAB1002D	Demolition	30	09AUG11	29SEP11	251,790	10AUG11	03OCT11	1	1	■ Demolition Below Grade - 188D												
AAB1002E	Loadout - 188D	40	25AUG11	03NOV11	182,640	29AUG11	07NOV11	1	1	■ Loadout - 188D												
AAB1002F	Transition/Final	30	07NOV11	04JAN12	33,754	08NOV11	05JAN12	1	1	■ Transition/Final Closure - 188D												
<b>RA Field Remediation</b>																						
<b>CBA0301 CS Site - 100 D-DR -MiscPipg (100-D-31,100-D-50)</b>																						
CBA0301A	Work	25	31AUG05A	01SEP05A	52,725	29AUG05	11OCT05	-2	21	■ Work Instructions - CS Site - 100 DDR - Misc Pip												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
CBA0301B	Smplg and	49	07NOV05A	21DEC06A	168,213	12OCT05	12JAN06	-14	-190	Smplg and Analysis - CS Site - 100 DDR - Misc Pi												
CBA0301C	RSVP or RTD	84	31AUG05A	09AUG07	70,946	16JAN06	13JUN06	72	-232	RSVP or RTD Report - CS Site - 100 DDR - Misc Pi												
CBA0302 Confirmatory Sampling Site - 100-D-13																						
CBA0302C	RSVP or RTD	84	29AUG05A	03OCT05A	2,539	29AUG05	31JAN06	0	64	RSVP or RTD Report - CS Site - 100-D-13												
CBA0303 Confirmatory Sampling Site - 100-D-14																						
CBA0303A	Work	50	17OCT05A	01DEC05A	7,532	03OCT05*	04JAN06	-8	16	Work Instructions - CS Site - 100-D-14												
CBA0303B	Smplg and	25	03JAN06A	12JUL07	0	05JAN06	16FEB06	2	-280	Smplg and Analysis - CS Site - 100-D-14												
CBA0303C	RSVP or RTD	84	27FEB06A	12NOV07	10,137	21FEB06	19JUL06	-3	-264	RSVP or RTD Report - CS Site - 100-D-14												
CBA0305 Confirmatory Sampling Site - 100-D-24																						
CBA0305B	Smplg and	25	03NOV05A	17JAN06A	17,268	16NOV05*	05JAN06	7	-6	Smplg and Analysis - CS Site - 100-D-24												
CBA0305C	RSVP or RTD	84	16JAN06A	26SEP06A	10,137	09JAN06	06JUN06	-4	-62	RSVP or RTD Report - CS Site - 100-D-24												
CBA0309 Confirmatory Sampling Site - 100-D-7																						
CBA0309B	Smplg and	25	02NOV05A	19DEC05A	69,651	31OCT05*	14DEC05	-2	-2	Smplg and Analysis - CS Site - 100-D-7												
CBA0309C	RSVP or RTD	84	28NOV05A	16FEB06A	20,270	15DEC05	17MAY06	11	50	RSVP or RTD Report - CS Site - 100-D-7												
CBA0310 Confirmatory Sampling Site - 100-D-8																						
CBA0310B	Smplg and	25	03OCT05A	16FEB06A	69,651	27OCT05*	13DEC05	15	-35	Smplg and Analysis - CS Site - 100-D-8												
CBA0310C	RSVP or RTD	84	16FEB06A	04APR06A	20,270	14DEC05	16MAY06	-34	24	RSVP or RTD Report - CS Site - 100-D-8												
CBA0311 Confirmatory Sampling Site - 100-D-9																						
CBA0311A	Work	50	17OCT05A	08DEC05A	15,065	17OCT05*	18JAN06	0	20	Work Instructions - CS Site - 100-D-9												
CBA0311B	Smplg and	25	03JAN06A	04APR06A	46,796	19JAN06	06MAR06	10	-17	Smplg and Analysis - CS Site - 100-D-9												
CBA0311C	RSVP or RTD	84	20MAR06A	10AUG06A	20,270	07MAR06	02AUG06	-7	-5	RSVP or RTD Report - CS Site - 100-D-9												
CBA0314 Confirmatory Sampling Site - 116-DR-8																						
CBA0314C	RSVP or RTD	84	31AUG05A	03OCT05A	2,539	03OCT05*	07MAR06	17	83	RSVP or RTD Report - CS Site - 116-DR-8												
CBA0316 Confirmatory Sampling Site - 128-D-2																						
CBA0316B	Smplg and	25	25OCT05A	12JAN06A	69,651	19JAN06*	06MAR06	45	28	Smplg and Analysis - CS Site - 128-D-2												
CBA0316C	RSVP or RTD	84	28NOV05A	06MAR06A	20,270	07MAR06	02AUG06	53	84	RSVP or RTD Report - CS Site - 128-D-2												
CBA0318 Confirmatory Sampling Site - 132-D-1																						
CBA0318C	RSVP or RTD	84	08SEP05A	03MAY07	15,294	17JAN06	14JUN06	69	-177	RSVP or RTD Report - CS Site - 132-D-1												
CBA0318A	Work	50	26MAR07	20JUN07	7,532	29AUG05	28NOV05	-312	-312	Work Instructions - CS Site - 132-D-1												
CBA0318B	Smplg and	25	21JUN07	06AUG07	69,651	29NOV05	16JAN06	-312	-312	Smplg and Analysis - CS Site - 132-D-1												
CBA0319 Confirmatory Sampling Site - 132-D-2																						
CBA0319C	RSVP or RTD	84	29AUG05A	12DEC05A	15,294	17JAN06	14JUN06	75	101	RSVP or RTD Report - CS Site - 132-D-2												
CBA0319A	Work	50	29AUG05A	16MAY06A	7,532	29AUG05	28NOV05	0	-93	Work Instructions - CS Site - 132-D-2												
CBA0319B	Smplg and	25	29AUG05A	16MAY06A	69,651	29NOV05	16JAN06	50	-68	Smplg and Analysis - CS Site - 132-D-2												
CBA0320 Confirmatory Sampling Site - 132-D-3																						
CBA0320C	RSVP or RTD	84	08SEP05A	12DEC05A	15,294	17JAN06	14JUN06	69	101	RSVP or RTD Report - CS Site - 132-D-3												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt chart area with bars representing activity durations across fiscal years.												
CBA0320A	Work	50	08SEP05A	16MAY06A	15,065	29AUG05	28NOV05	-6	-93	■ Work Instructions - CS Site - 132-D-3												
CBA0320B	Smpg and	25	08SEP05A	16MAY06A	46,796	29NOV05	16JAN06	44	-68	■ Smpg and Analysis - CS Site - 132-D-3												
CBA0321 Confirmatory Sampling Site - 132-DR-1																						
CBA0321A	Work	50	03OCT05A	03OCT05A	15,065	29AUG05	28NOV05	-19	30	■ Work Instructions - CS Site - 132-DR-1												
CBA0321B	Smpg and	25	03OCT05A	03OCT05A	46,796	29NOV05	16JAN06	31	55	■ Smpg and Analysis - CS Site - 132-DR-1												
CBA0321C	RSVP or RTD	84	03OCT05A	03OCT05A	20,270	17JAN06	14JUN06	56	139	■ RSVP or RTD Report - CS Site - 132-DR-1												
CBA0322 Confirmatory Sampling Site - 1607-D1																						
CBA0322A	Work	50	17OCT05A	08DEC05A	7,532	31OCT05*	01FEB06	8	28	■ Work Instructions - CS Site - 1607-D1												
CBA0322B	Smpg and	25	29DEC05A	16FEB06A	29,530	02FEB06	20MAR06	19	16	■ Smpg and Analysis - CS Site - 1607-D1												
CBA0322C	RSVP or RTD	84	21FEB06A	13JUN06A	20,270	21MAR06	16AUG06	16	36	■ RSVP or RTD Report - CS Site - 1607-D1												
CBA0323 Confirmatory Sampling Site - 1607-D4																						
CBA0323C	RSVP or RTD	84	29AUG05A	27FEB06A	2,539	29AUG05	31JAN06	0	-14	■ RSVP or RTD Report - CS Site - 1607-D4												
CBA0324 Confirmatory Sampling Site - 1607-D5																						
CBA0324B	Smpg and	1	03OCT05A	29SEP05A	29,530	29AUG05	29AUG05	-19	-18	■ Smpg and Analysis - CS Site - 1607-D5												
CBA0324C	RSVP or RTD	84	12JAN06A	30JAN06A	20,270	29AUG05	31JAN06	-73	1	■ RSVP or RTD Report - CS Site - 1607-D5												
CBA0328 Confirmatory Sampling Site - 100-D-65																						
CBA0328A	Work	50	03OCT05A	08DEC05A	22,596	03OCT05*	04JAN06	0	12	■ Work Instructions - CS Site - 100-D-65												
CBA0328B	Smpg and	25	04JAN06A	29MAR06A	80,594	05JAN06	16FEB06	1	-22	■ Smpg and Analysis - CS Site - 100-D-65												
CBA0328C	RSVP or RTD	84	20MAR06A	26APR06A	30,406	21FEB06	19JUL06	-15	46	■ RSVP or RTD Report - CS Site - 100-D-65												
CBA0329 Confirmatory Sampling Site - 100-D-66																						
CBA0329A	Work	50	03OCT05A	08DEC05A	22,596	17OCT05*	18JAN06	8	20	■ Work Instructions - CS Site - 100-D-66												
CBA0329B	Smpg and	25	05JAN06A	29MAR06A	80,594	19JAN06	06MAR06	8	-14	■ Smpg and Analysis - CS Site - 100-D-66												
CBA0329C	RSVP or RTD	84	20MAR06A	26APR06A	30,406	07MAR06	02AUG06	-7	54	■ RSVP or RTD Report - CS Site - 100-D-66												
CBA0330 Confirmatory Sampling Site - 100-D-67																						
CBA0330A	Work	50	12OCT05A	27DEC05A	15,065	31OCT05*	01FEB06	10	20	■ Work Instructions - CS Site - 100-D-67												
CBA0330B	Smpg and	25	09FEB06A	09FEB06A	55,062	02FEB06	20MAR06	-4	20	■ Smpg and Analysis - CS Site - 100-D-67												
CBA0330C	RSVP or RTD	84	09FEB06A	23FEB06A	20,270	21MAR06	16AUG06	21	97	■ RSVP or RTD Report - CS Site - 100-D-67												
CBA0331 Confirmatory Sampling Site - 100-D-62																						
CBA0331A	Work	50	01OCT07*	02JAN08	15,065	03OCT05*	04JAN06	-398	-398	■ Work Instructions - CS Site - 100-D-62												
CBA0331B	Smpg and	25	03JAN08	14FEB08	55,062	05JAN06	16FEB06	-398	-398	■ Smpg and Analysis - CS Site - 100-D-62												
CBA0331C	RSVP or RTD	84	19FEB08	16JUL08	20,270	21FEB06	19JUL06	-398	-398	■ RSVP or RTD Report - CS Site - 100-D-62												
CBA0332 Confirmatory Sampling Site - 100-D-63																						
CBA0332A	Work	50	01OCT07*	02JAN08	82,852	03OCT05*	04JAN06	-398	-398	■ Work Instructions - CS Site - 100-D-63												
CBA0332B	Smpg and	25	03JAN08	14FEB08	269,834	05JAN06	16FEB06	-398	-398	■ Smpg and Analysis - CS Site - 100-D-63												
CBA0332C	RSVP or RTD	84	19FEB08	16JUL08	111,488	21FEB06	19JUL06	-398	-398	■ RSVP or RTD Report - CS Site - 100-D-63												

















Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year													
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
CBC0509D	Closeout Smpg	40	19OCT09	04JAN10	19,223	09SEP08	24JUN09	-222	-103														
CBC0509C	Backfill - Rem	40	26SEP11	06DEC11	6,229	13SEP10	18NOV10	-207	-207														
CBC0509E	Revegetation -	10	12DEC11	29DEC11	514	13JUL11	28JUL11	-83	-83														
<b>CBC0601 Remediate Burial Ground - 100-D-40</b>																							
CBC0601A	Excavation -	2	08JAN09*	12JAN09	85,576	03NOV08	19NOV08	-34	-25														
CBC0601B	Loadout - Rem	2	05FEB09	09FEB09	95,040	03DEC08	22DEC08	-34	-25														
CBC0601M	Complete	0		09FEB09	0		22DEC08	-25	-25														
CBC0601D	Closeout Smpg	160	10FEB09	23NOV09	4,094	23DEC08	07OCT09	-25	-26														
CBC0601C	Backfill - Rem	4	14APR11	20APR11	27,714	28DEC10	04JAN11	-60	-60														
CBC0601E	Revegetation -	1	05MAY11	05MAY11	402	31OCT11	31OCT11	98	98														
<b>CBC0602 Remediate Burial Ground - 100-D-43</b>																							
CBC0602A	Excavation -	3	01OCT08*	06OCT08	59,414	07JUN10	07JUN10	334	332														
CBC0602B	Loadout - Rem	5	29OCT08	05NOV08	64,546	06JUL10	06JUL10	334	330														
CBC0602D	Closeout Smpg	190	06NOV08	20OCT09	2,672	07JUL10	21APR11	330	299														
CBC0602C	Backfill - Rem	1	03MAY11	03MAY11	18,092	17JAN11	17JAN11	-60	-60														
CBC0602E	Revegetation -	1	09MAY11	09MAY11	262	01NOV11	01NOV11	98	98														
<b>CBC0603 Remediate Burial Ground - 100-D-47</b>																							
CBC0603A	Excavation -	30	20JUN07*	13AUG07	336,466	20JAN09	02FEB09	315	293														
CBC0603B	Loadout - Rem	23	19JUL07	28AUG07	317,344	18FEB09	03MAR09	315	300														
CBC0603D	Closeout Smpg	154	31AUG09*	08JUN10	9,326	04MAR09	15DEC09	-100	-95														
CBC0603C	Backfill - Rem	3	27APR11	02MAY11	63,128	11JAN11	13JAN11	-60	-60														
CBC0603E	Revegetation -	1	03MAY11	03MAY11	916	26OCT11	26OCT11	98	98														
<b>CBC0604 Remediate Burial Ground - 118-D-1</b>																							
CBC0604A	Excavation -	113	28JUL09*	22FEB10	1,914,340	01OCT09*	27APR10	37	37														
CBC0604B	Loadout - Rem	184	25AUG09	27JUL10	1,871,966	29OCT09	25MAY10	37	-34														
CBC0604D	Closeout Smpg	219	28JUL10	30AUG11	88,130	26MAY10	15MAR11	-34	-94														
CBC0604C	Backfill - Rem	40	31AUG11*	09NOV11	596,510	04AUG11*	13OCT11	-15	-15														
CBC0604E	Revegetation -	8	10NOV11	28NOV11	8,654	17OCT11	27OCT11	-15	-15														
<b>CBC0605 Remediate Burial Ground - 118-D-2</b>																							
CBC0605A	Excavation -	123	28JUL09	10MAR10	2,949,254	01OCT09	06MAY10	37	33														
CBC0605B	Loadout - Rem	150	25AUG09	25MAY10	2,423,216	29OCT09	07JUN10	37	6														
CBC0605D	Closeout Smpg	172	26MAY10	06APR11	115,522	08JUN10	24MAR11	6	-7														
CBC0605C	Backfill - Rem	43	31AUG11	15NOV11	781,916	04AUG11	19OCT11	-15	-15														
CBC0605E	Revegetation -	9	10NOV11	29NOV11	11,342	17OCT11	31OCT11	-15	-15														





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt chart area with bars for each fiscal year.												
CBR2501A6	Fld. Rem.-100	184	01OCT09	01SEP10	5,824,737	01OCT09	30SEP10	0	16	Fld. Rem.-100 D Non Site Specific Support												
CBR2501A7	Fld. Rem.-100	199	02SEP10	31AUG11	1,805,366	04OCT10	29SEP11	16	16	Fld. Rem.-100 D Non Site Specific Support												
CBR2501A8	Fld. Rem.-100	199	01SEP11	29AUG12	89,889	03OCT11	29DEC11	16	-135	Fld. Rem.-100 D Non Site Specific Support												
<b>100 F AREA</b>																						
<b>DE Remedial Design</b>																						
CCD0101 Fld. Rem.-100 F Area Design																						
CCD0101A	Fld. Rem.-100	99	29AUG05A	27SEP07	208,504	02OCT06*	02APR07	218	-100	Fld. Rem.-100 F Area Design												
<b>RA Field Remediation</b>																						
CCA0305 Confirmatory Sampling Site - 100-F-31																						
CCA0305A	Work	1	01OCT05A	01OCT05A	0	02OCT06*	02OCT06	199	200	Work Instructions - CS Site - 100-F-31 (DONE)												
CCA0305B	Smpg and	1	01OCT05A	01OCT05A	0	03OCT06	03OCT06	200	201	Smpg and Analysis - CS Site - 100-F-31 (DONE)												
CCA0305C	RSVP or RTD	1	01OCT05A	01OCT05A	242	04OCT06	04OCT06	201	202	RSVP or RTD Report - CS Site - 100-F-31 (DONE)												
CCA0306 Confirmatory Sampling Site - 100-F-33																						
CCA0306A	Work	1	01OCT05A	01OCT05A	0	02OCT06	02OCT06	199	200	Work Instructions - CS Site - 100-F-33 (DONE)												
CCA0306B	Smpg and	1	01OCT05A	01OCT05A	0	05OCT06	05OCT06	202	203	Smpg and Analysis - CS Site - 100-F-33 (DONE)												
CCA0306C	RSVP or RTD	1	01OCT05A	01OCT05A	242	09OCT06	09OCT06	203	204	RSVP or RTD Report - CS Site - 100-F-33 (DONE)												
CCA0308 Confirmatory Sampling Site - 100-F-36																						
CCA0308A	Work	1	01OCT05A	01OCT05A	0	02OCT06	02OCT06	199	200	Work Instructions - CS Site - 100-F-36 (DONE)												
CCA0308B	Smpg and	1	01OCT05A	01OCT05A	0	10OCT06	10OCT06	204	205	Smpg and Analysis - CS Site - 100-F-36 (DONE)												
CCA0308C	RSVP or RTD	1	01OCT05A	01OCT05A	242	11OCT06	11OCT06	205	206	RSVP or RTD Report - CS Site - 100-F-36 (DONE)												
CCA0314 Confirmatory Sampling Site - 126-F-2																						
CCA0314A	Work	1	01OCT05A	01OCT05A	0	02OCT06	02OCT06	199	200	Work Instructions - CS Site - 126-F-2 (DONE)												
CCA0314B	Smpg and	1	01OCT05A	01OCT05A	0	12OCT06	12OCT06	206	207	Smpg and Analysis - CS Site - 126-F-2 (DONE)												
CCA0314C	RSVP or RTD	1	01OCT05A	01OCT05A	242	16OCT06	16OCT06	207	208	RSVP or RTD Report - CS Site - 126-F-2 (DONE)												
CCA0315 Confirmatory Sampling Site - 128-F-2																						
CCA0315A	Work	1	01OCT05A	01OCT05A	0	02OCT06	02OCT06	199	200	Work Instructions - CS Site - 128-F-2 (DONE)												
CCA0315B	Smpg and	1	01OCT05A	01OCT05A	0	17OCT06	17OCT06	208	209	Smpg and Analysis - CS Site - 128-F-2 (DONE)												
CCA0315C	RSVP or RTD	1	01OCT05A	01OCT05A	242	18OCT06	18OCT06	209	210	RSVP or RTD Report - CS Site - 128-F-2 (DONE)												
CCA0316 Confirmatory Sampling Site - 132-F-1																						
CCA0316A	Work	1	01OCT05A	01OCT05A	0	02OCT06*	02OCT06	199	200	Work Instructions - CS Site - 132-F-1 (DONE)												
CCA0316B	Smpg and	1	01OCT05A	01OCT05A	0	19OCT06	19OCT06	210	211	Smpg and Analysis - CS Site - 132-F-1 (DONE)												
CCA0316C	RSVP or RTD	1	01OCT05A	01OCT05A	242	23OCT06	23OCT06	211	212	RSVP or RTD Report - CS Site - 132-F-1 (DONE)												
CCA0317 Confirmatory Sampling Site - 141-C																						
CCA0317A	Work	1	01OCT05A	01OCT05A	0	02OCT06	02OCT06	199	200	Work Instructions - CS Site - 141-C (DONE)												
CCA0317B	Smpg and	1	01OCT05A	01OCT05A	0	24OCT06	24OCT06	212	213	Smpg and Analysis - CS Site - 141-C (DONE)												
CCA0317C	RSVP or RTD	1	01OCT05A	01OCT05A	242	25OCT06	25OCT06	213	214	RSVP or RTD Report - CS Site - 141-C (DONE)												





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
CCA0342C	RSVP or RTD	84	22JUL08	18DEC08	12,012	09APR07	05SEP07	-258	-258	■ RSVP or RTD Report - CS Site - 100-F-57												
<b>CCB0401 Remediate Liquid Waste Site - 100-F-26</b>																						
CCB0401A	Excavation	76	30OCT06A	09MAY07	1,632,461	09AUG10*	02AUG11	753	845	■ Excavation Process - Rem Liq Wst Site - 100-F-26												
CCB0401B	Loadout - Rem	82	10MAY07	04OCT07	200,917	09AUG10	02AUG11	648	763	■ Loadout - Rem Liq Wst Site - 100-F-26												
CCB0401D	Closeout	54	08OCT07*	16JAN08	452,098	03AUG11	16JUL12	763	899	■ Closeout Sampling & Documentation - Rem Liq Wst												
CCB0401C	Backfill - Rem	8	17JAN08	30JAN08	1,077,187	17JUL12	26MAR13	899	1,029	■ Backfill - Rem Liq Wst Site - 100-F-26												
CCB0401E	Revegetation -	8	24MAR08*	03APR08	52,547	27MAR13	30APR13	1,001	1,013	■ Revegetation - Rem Liq Wst Site - 100-F-26												
<b>CCB0502 Remediate Waste Site - 100-F-38</b>																						
CCB0502A	Excavation	5	15SEP05A	15SEP05A	456	29AUG05	06SEP05	-10	-6	■ Excavation Process - Rem Wst Site - 100-F-38												
CCB0502B	Loadout - Rem	5	15SEP05A	15SEP05A	32	27SEP05	04OCT05	6	10	■ Loadout - Rem Wst Site - 100-F-38												
CCB0502D	Closeout Smpg	159	28NOV05A	15MAR06A	101	05OCT05	24JUL06	-28	72	■ Closeout Smpg - Rem Wst Site - 100-F-38												
CCB0502C	Backfill - Rem	1	19OCT06A	19OCT06A	72	01OCT07*	02OCT07	188	189	■ Backfill - Rem Wst Site - 100-F-38												
CCB0502E	Revegetation -	1	15DEC08*	15DEC08	4	31JAN07	31JAN07	-375	-375	■ Revegetation - Rem Wst Site - 100-F-38												
<b>CCB0503 Remediate Waste Site - 116-F-16</b>																						
CCB0503A	Excavation	26	31AUG05A	08NOV05A	129,549	29AUG05	12OCT05	-2	-15	■ Excavation Process - Rem Wst Site - 116-F-16												
CCB0503B	Loadout - Rem	26	03NOV05A	08NOV05A	9,117	27SEP05	09NOV05	-22	1	■ Loadout - Rem Wst Site - 116-F-16												
CCB0503D	Closeout Smpg	159	27DEC05A	19SEP06A	28,783	10NOV05	29AUG06	-22	-11	■ Closeout Smpg - Rem Wst Site - 116-F-16												
CCB0503C	Backfill - Rem	1	21JUN07*	21JUN07	20,562	28FEB08	13MAR08	136	144	■ Backfill - Rem Wst Site - 116-F-16												
CCB0503E	Revegetation -	1	29DEC08	29DEC08	1,032	12MAR07	13MAR07	-360	-359	■ Revegetation - Rem Wst Site - 116-F-16												
<b>CCB0504 Remediate Waste Site - 116-F-8 (inc WS 100-F-39)</b>																						
CCB0504A	Excavation	29	01SEP05A	28NOV05A	129,549	29AUG05	18OCT05	-3	-21	■ Excavation Process - Rem Wst Site - 116-F-8 (inc												
CCB0504B	Loadout - Rem	29	07NOV05A	28NOV05A	9,117	27SEP05	15NOV05	-23	-5	■ Loadout - Rem Wst Site - 116-F-8 (includes Waste												
CCB0504D	Closeout Smpg	159	09JAN06A	26SEP06A	45,080	16NOV05	05SEP06	-25	-12	■ Closeout Smpg - Rem Wst Site - 116-F-8 (include												
CCB0504C	Backfill - Rem	4	25JUN08*	01JUL08	20,562	17MAR08	02APR08	-57	-50	■ Backfill - Rem Wst Site - 116-F-8 (includes Wast												
CCB0504E	Revegetation -	2	30DEC08	31DEC08	1,032	14MAR07	15MAR07	-359	-359	■ Revegetation - Rem Wst Site - 116-F-8 (includes												
<b>CCB0505 Remediate Waste Site - 118-F-8</b>																						
CCB0505A	Excavation	30	14MAR07A	04APR07	72,389	01OCT07*	20NOV07	111	128	■ Excavation Process - Rem Wst Site - 118-F-8												
CCB0505B	Loadout - Rem	7	22MAR07A	05APR07	36,530	29OCT07	07NOV07	122	120	■ Loadout - Rem Wst Site - 118-F-8												
CCB0505D	Closeout Smpg	159	09APR07	24SEP07	21,682	08NOV07	26AUG08	120	185	■ Closeout Smpg - Rem Wst Site - 118-F-8												
CCB0505C	Backfill - Rem	1	25SEP08*	25SEP08	125,513	27AUG08	02SEP08	-16	-14	■ Backfill - Rem Wst Site - 118-F-8												
CCB0505E	Revegetation -	1	15DEC08	15DEC08	1,017	03SEP08	03SEP08	-56	-56	■ Revegetation - Rem Wst Site - 118-F-8												
<b>CCB0506 Remediate Waste Site - 126-F-1</b>																						
CCB0506A	Excavation	49	26MAR07*	19JUN07	0	02OCT06*	02JAN07	-94	-94	■ Excavation Process - Rem Wst Site - 126-F-1												
CCB0506B	Loadout - Rem	49	23APR07	18JUL07	0	30OCT06	30JAN07	-94	-94	■ Loadout - Rem Wst Site - 126-F-1												
CCB0506D	Closeout Smpg	159	19JUL07	05MAY08	0	31JAN07	12NOV07	-94	-94	■ Closeout Smpg - Rem Wst Site - 126-F-1												





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
<b>CCB0513 Remediate Waste Site - 132-F-1</b>																						
CCB0513B	Loadout - Rem	49	06SEP05A	06SEP05A	2,192	29AUG05	22NOV05	-4	44	Loadout - Rem Wst Site - 132-F-1												
CCB0513D	Closeout Smpng	159	12OCT05A	24AUG06A	24,843	28NOV05	12SEP06	24	9	Closeout Smpng - Rem Wst Site - 132-F-1												
CCB0513C	Backfill - Rem	2	26MAR08*	27MAR08	15,915	13SEP06	25OCT06	-305	-282	Backfill - Rem Wst Site - 132-F-1												
CCB0513E	Revegetation -	1	09DEC08	09DEC08	1,775	06MAY08	14MAY08	-119	-114	Revegetation - Rem Wst Site - 132-F-1												
<b>CCB0514 Remediate Waste Site - 141-C</b>																						
CCB0514B	Loadout - Rem	49	22SEP05A	26SEP05A	10,959	29AUG05	22NOV05	-14	33	Loadout - Rem Wst Site - 141-C												
CCB0514D	Closeout Smpng	159	19OCT05A	24MAY06A	19,223	28NOV05	12SEP06	20	60	Closeout Smpng - Rem Wst Site - 141-C												
CCB0514C	Backfill - Rem	1	31MAR08*	31MAR08	6,960	26OCT06	12DEC06	-282	-258	Backfill - Rem Wst Site - 141-C												
CCB0514E	Revegetation -	1	10DEC08	10DEC08	1,172	15MAY08	27MAY08	-114	-109	Revegetation - Rem Wst Site - 141-C												
<b>CCB0515 Remediate Waste Site - 1607-F3</b>																						
CCB0515A	Excavation	49	27SEP05A	15NOV05A	52,727	29AUG05	22NOV05	-16	4	Excavation Process - Rem Wst Site - 1607-F3												
CCB0515B	Loadout - Rem	49	10NOV05A	12DEC06A	21,918	27SEP05	27DEC05	-26	-193	Loadout - Rem Wst Site - 1607-F3												
CCB0515D	Closeout Smpng	159	17NOV05A	23MAY07	38,446	28DEC05	10OCT06	19	-123	Closeout Smpng - Rem Wst Site - 1607-F3												
CCB0515C	Backfill - Rem	1	20AUG07	20AUG07	14,020	20NOV07	09JAN08	52	76	Backfill - Rem Wst Site - 1607-F3												
CCB0515E	Revegetation -	1	22DEC08	22DEC08	1,629	15FEB07	27FEB07	-370	-365	Revegetation - Rem Wst Site - 1607-F3												
<b>CCB0516 Remediate Waste Site - 1607-F4</b>																						
CCB0516A	Excavation	1	26MAR07	26MAR07	15,942	02OCT06	02JAN07	-94	-46	Excavation Process - Rem Wst Site - 1607-F4												
CCB0516B	Loadout - Rem	1	23APR07	23APR07	3,653	30OCT06	30JAN07	-94	-46	Loadout - Rem Wst Site - 1607-F4												
CCB0516D	Closeout Smpng	106	24APR07	30OCT07	19,223	31JAN07	12NOV07	-46	7	Closeout Smpng - Rem Wst Site - 1607-F4												
CCB0516C	Backfill - Rem	1	15JUL08	15JUL08	1,704	31MAR08	12MAY08	-59	-35	Backfill - Rem Wst Site - 1607-F4												
CCB0516E	Revegetation -	1	09DEC08	09DEC08	260	06MAY08	14MAY08	-119	-114	Revegetation - Rem Wst Site - 1607-F4												
<b>CCB0517 Remediate Waste Site - 1607-F5</b>																						
CCB0517A	Excavation	49	29AUG05A	10NOV05A	38,316	29AUG05	22NOV05	0	6	Excavation Process - Rem Wst Site - 1607-F5												
CCB0517B	Loadout - Rem	49	08NOV05A	10NOV05A	18,265	27SEP05	27DEC05	-24	22	Loadout - Rem Wst Site - 1607-F5												
CCB0517D	Closeout Smpng	159	01DEC05A	19SEP06A	19,223	28DEC05	10OCT06	13	12	Closeout Smpng - Rem Wst Site - 1607-F5												
CCB0517C	Backfill - Rem	1	21AUG08*	21AUG08	6,923	10JAN08	25FEB08	-125	-101	Backfill - Rem Wst Site - 1607-F5												
CCB0517E	Revegetation -	1	23DEC08	23DEC08	750	28FEB07	08MAR07	-365	-360	Revegetation - Rem Wst Site - 1607-F5												
<b>CCB0518 Remediate Waste Site - 1607-F7</b>																						
CCB0518B	Loadout - Rem	49	22SEP05A	22SEP05A	3,653	27SEP05	27DEC05	2	50	Loadout - Rem Wst Site - 1607-F7												
CCB0518A	Excavation	49	27SEP05A	27SEP05A	24,443	29AUG05	22NOV05	-16	32	Excavation Process - Rem Wst Site - 1607-F7												
CCB0518D	Closeout Smpng	159	17OCT05A	30OCT06A	19,223	28DEC05	10OCT06	38	-11	Closeout Smpng - Rem Wst Site - 1607-F7												
CCB0518C	Backfill - Rem	1	18AUG08*	18AUG08	1,822	13DEC06	30JAN07	-335	-311	Backfill - Rem Wst Site - 1607-F7												
CCB0518E	Revegetation -	1	11DEC08	11DEC08	352	28MAY08	05JUN08	-109	-104	Revegetation - Rem Wst Site - 1607-F7												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year													
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
<b>CCB0519 Remediate Waste Site - 182-F</b>																							
CCB0519C	Backfill - Rem	25	08FEB06A	27MAR06A	429,635	31JAN07	15MAR07	195	194														
CCB0519E	Revegetation -	2	15DEC08	16DEC08	3,240	31JAN07	08FEB07	-375	-371														
<b>CCC0501 Remediate Waste Site - 120-F-1</b>																							
CCC0501A	Excavation	5	19JAN06A	09APR07	18,249	29AUG05	06SEP05	-77	-316														
CCC0501B	Loadout - Rem	2	10APR07	11APR07	972	27SEP05	04OCT05	-305	-302														
CCC0501D	Closeout Smpg	118	12APR07	08NOV07	3,564	05OCT05	24JUL06	-302	-261														
CCC0501C	Backfill - Rem	3	12NOV07	14NOV07	880	03OCT07	04OCT07	-22	-23														
CCC0501E	Revegetation -	1	16DEC08	16DEC08	192	01FEB07	01FEB07	-375	-375														
<b>CCC0502 Remediate Waste Site - 128-F-3</b>																							
CCC0502A	Excavation	6	20SEP05A	17NOV05A	107,950	29AUG05	07SEP05	-12	-41														
CCC0502B	Loadout - Rem	6	15NOV05A	17NOV05A	5,750	27SEP05	05OCT05	-28	-25														
CCC0502D	Closeout Smpg	159	28NOV05A	30OCT06A	21,080	06OCT05	25JUL06	-27	-54														
CCC0502C	Backfill - Rem	1	16JUN08*	16JUN08	5,203	26FEB08	27FEB08	-62	-61														
CCC0502E	Revegetation -	1	17DEC08	17DEC08	1,135	05FEB07	05FEB07	-375	-375														
<b>CCC0503 Remediate Waste Site - 1607-F1</b>																							
CCC0503A	Excavation	1	26MAR07	26MAR07	26,780	02OCT06	28DEC06	-94	-47														
CCC0503B	Loadout - Rem	1	01APR08*	01APR08	3,653	30OCT06	29JAN07	-282	-235														
CCC0503E	Revegetation -	1	02JUL08	02JUL08	505	03APR08	14APR08	-50	-45														
CCC0503D	Closeout Smpg	105	02APR08	07OCT08	19,223	30JAN07	08NOV07	-235	-181														
CCC0503C	Backfill - Rem	1	08OCT08	08OCT08	2,595	12NOV07*	27DEC07	-181	-158														
<b>CCC0601 Remediate Burial Ground - 100-F-20</b>																							
CCC0601A	Excavation -	39	05DEC05A	25MAY06A	136,365	01AUG06	09OCT06	131	74														
CCC0601B	Loadout - Rem	39	10APR06A	24AUG06A	75,493	29AUG06	06NOV06	79	40														
CCC0601D	Closeout Smpg	69	15MAY06A	29JAN07A	3,353	07NOV06	23AUG07	98	116														
CCC0601C	Backfill - Rem	3	21AUG07	23AUG07	75,543	10OCT07	01NOV07	28	39														
CCC0601E	Revegetation -	1	27AUG08*	27AUG08	936	15JUL08	17JUL08	-25	-23														
<b>CCC0602 Remediate Burial Ground - 118-F-1</b>																							
CCC0602A	Excavation -	176	03JAN06A	07MAY07	3,571,130	01JUN06*	18APR07	84	-10														
CCC0602B	Loadout - Rem	56	28AUG06A	28JUN07	1,625,724	29JUN06	16MAY07	-32	-24														
CCC0602M	Complete	0		28JUN07	0		16MAY07	-24	-24														
CCC0602D	Closeout Smpg	118	02JUL07	04FEB08	71,574	17MAY07	05MAR08	-24	17														
CCC0602C	Backfill - Rem	10	05FEB08	21FEB08	1,614,509	06MAR08	25JUN08	17	70														
CCC0602E	Revegetation -	4	25FEB08	28FEB08	19,995	26JUN08	21JUL08	70	79														

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year													
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
<b>CCC0603 Remediate Burial Ground - 118-F-2</b>																							
CCC0603A	Excavation -	94	16JAN06A	24APR07	1,508,358	01JUN06	15NOV06	77	-85														
CCC0603B	Loadout - Rem	94	12JUL06A	05JUN07	672,126	29JUN06	18DEC06	-6	-92														
CCC0603D	Closeout Smpg	112	06JUN07	27DEC07	29,820	19DEC06	03OCT07	-92	-45														
CCC0603C	Backfill - Rem	6	31DEC07	09JAN08	672,673	04OCT07	05DEC07	-45	-17														
CCC0603E	Revegetation -	4	10JAN08	16JAN08	8,331	06DEC07	18DEC07	-17	-14														
<b>CCC0604 Remediate Burial Ground - 118-F-3</b>																							
CCC0604A	Excavation -	15	01FEB06A	27APR06A	187,997	29AUG06	25SEP06	116	82														
CCC0604B	Loadout - Rem	4	15MAY06A	23MAY06A	69,488	27SEP06	23OCT06	75	84														
CCC0604D	Closeout Smpg	51	17JUL06A	04JAN07A	3,080	24OCT06	09AUG07	56	121														
CCC0604C	Backfill - Rem	2	16AUG07*	20AUG07	69,534	01OCT07*	09OCT07	24	28														
CCC0604E	Revegetation -	1	21AUG08*	21AUG08	861	14JUL08	14JUL08	-23	-23														
<b>CCC0605 Remediate Burial Ground - 118-F-5</b>																							
CCC0605A	Excavation -	81	28NOV05A	06APR06A	732,044	03JUL06*	27NOV06	119	128														
CCC0605B	Loadout - Rem	81	28NOV05A	14MAY07	883,162	01AUG06	27DEC06	135	-76														
CCC0605D	Closeout Smpg	93	15MAY08*	29OCT08	14,099	28DEC06	10OCT07	-277	-211														
CCC0605C	Backfill - Rem	5	30OCT08	06NOV08	318,094	11OCT07	04DEC07	-211	-187														
CCC0605E	Revegetation -	4	10NOV08	13NOV08	3,939	05DEC07	13DEC07	-187	-185														
<b>CCC0606 Remediate Burial Ground - 118-F-6</b>																							
CCC0606A	Excavation -	101	08DEC05A	21JUN07	2,526,823	29MAY07*	27NOV07	292	86														
CCC0606B	Loadout - Rem	101	10APR06A	21JUN07	1,137,045	26JUN07	27DEC07	243	102														
CCC0606D	Closeout Smpg	91	25JUN08*	08DEC08	50,441	31DEC07	09OCT08	-99	-31														
CCC0606C	Backfill - Rem	6	09DEC08	17DEC08	1,137,952	13OCT08	16DEC08	-31	-1														
CCC0606E	Revegetation -	6	18DEC08	31DEC08	14,093	17DEC08	31DEC08	-1	0														
<b>CCC0607 Remediate Burial Ground - 118-F-7</b>																							
CCC0607A	Excavation -	5	26JAN06A	04APR06A	44,059	29JUN06	10JUL06	86	53														
CCC0607B	Loadout - Rem	5	04APR06A	04APR06A	778	31JUL06	07AUG06	65	69														
CCC0607D	Closeout Smpg	159	05APR06A	02NOV06A	35	08AUG06	23MAY07	69	109														
CCC0607E	Revegetation -	1	03MAR08	03MAR08	10	22JUL08	22JUL08	79	79														
CCC0607C	Backfill - Rem	1	18AUG08*	18AUG08	819	26JUN08	30JUN08	-28	-27														
<b>CCC0608 Remediate Burial Ground - 118-F-9</b>																							
CCC0608A	Excavation -	17	08DEC05A	12DEC05A	72,820	31JUL06	28AUG06	127	142														
CCC0608B	Loadout - Rem	17	12DEC05A	12DEC05A	12,928	28AUG06	26SEP06	142	158														
CCC0608D	Closeout Smpg	51	24APR06A	25MAY06A	572	27SEP06	16JUL07	87	226														
CCC0608C	Backfill - Rem	1	19OCT06A	19OCT06A	12,916	01JUL08	10JUL08	338	343														



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
CCC0608E	Revegetation -	1	04MAR08	04MAR08	160	23JUL08	23JUL08	79	79	Revegetation - Rem BG - 118-F-9												
CCR2501 Fld. Rem.-100 F Non Site Specific Support																						
CCR2501A5	Fld. Rem.-100	51	01OCT07*	03JAN08	110,955	01JUL10*	30SEP10	550	550	■ Fld. Rem.-100 F Non Site Specific Support												
CCR2501A6	Fld. Rem.-100	199	01OCT07	25SEP08	625,442	04OCT10	29SEP11	601	601	■ Fld. Rem.-100 F Non Site Specific Support												
CCR2501A7	Fld. Rem.-100	199	01OCT07	25SEP08	269,855	03OCT11	27SEP12	800	800	■ Fld. Rem.-100 F Non Site Specific Support												
CCR2501A8	Fld. Rem.-100	116	29SEP08	28APR09	308,981	01OCT12	30APR13	800	800	■ Fld. Rem.-100 F Non Site Specific Support												
<b>100 H AREA</b>																						
<b>DE Remedial Design</b>																						
CDD0101 Fld. Rem.-100 H Area Design																						
CDD0101A	Fld. Rem.-100	130	26JAN06A	27SEP07	211,020	01FEB06*	28SEP06	3	-199	■ Fld. Rem.-100 H Area Design												
<b>DD D4</b>																						
AAD0702 D4 Building - MO-229																						
AAD0702A	Plan &	8	12OCT10*	25OCT10	8,030	13JAN11	26JAN11	49	49	■ Plan & Document - MO-229												
AAD0702B	Deact & Decom	12	18OCT10	04NOV10	0	19JAN11	08FEB11	49	49	■ Deact & Decom - MO-229												
AAD0702C	Demolition	3	08NOV10	10NOV10	25,765	09FEB11	14FEB11	49	49	■ Demolition Above Grade - MO-229												
AAD0702D	Demolition	5	11NOV10	18NOV10	0	15FEB11	23FEB11	49	49	■ Demolition Below Grade - MO-229												
AAD0702E	Loadout -	6	16NOV10	29NOV10	0	17FEB11	01MAR11	49	49	■ Loadout - MO-229												
AAD0702F	Transition/Final	5	30NOV10	07DEC10	576	03MAR11	10MAR11	50	50	■ Transition/Final Closure - MO-229												
AAD1001 D4 Retention Basin - 183H WstClearwell(100-H-34)																						
AAD1001B	Deact & Decom	8	16AUG10	26AUG10	0	16AUG10	11OCT10	0	24	■ Deact & Decom - 183H West Clearwell (incl West												
AAD1001C	Demolition	8	07SEP10	20SEP10	13,808	12OCT10	12JAN11	20	61	■ Demolition Above Grade - 183H West Clearwell												
AAD1001D	Demolition	17	21SEP10	19OCT10	222,773	13JAN11	02FEB11	61	56	■ Demolition Below Grade - 183H West Clearwell												
AAD1001E	Loadout - 183H	23	23SEP10	02NOV10	206,018	20JAN11	16FEB11	63	56	■ Loadout - 183H West Clearwell (includes West												
AAD1001F	Transition/Final	16	03NOV10	02DEC10	117,567	17FEB11	10MAR11	56	52	■ Transition/Final Closure - 183H West Clearwell												
<b>RA Field Remediation</b>																						
CDA0301 Confirmatory Sampling Site - 100-H-28																						
CDA0301A	Work	70	25JAN06A	25APR07	75	05DEC05*	11APR06	-27	-208	■ Work Instructions - CS Site - 100-H-28 (Costs in												
CDA0301B	Smpgl and	34	02APR08*	02JUN08	0	01OCT07*	20NOV07	-100	-104	■ Smpgl and Analysis - CS Site - 100-H-28 (Costs i												
CDA0301C	RSVP or RTD	102	05MAY08	03NOV08	0	31OCT07	29OCT08	-100	-2	■ RSVP or RTD Report - CS Site - 100-H-28 (Costs i												
CDA0302 Confirmatory Sampling Site - 100-H-10																						
CDA0302A	Work	50	05DEC05A	16FEB06A	12,408	19DEC05	21MAR06	8	17	■ Work Instructions - CS Site - 100-H-10												
CDA0302B	Smpgl and	25	21MAR06A	23MAR06A	17,268	03OCT07	14NOV07	309	331	■ Smpgl and Analysis - CS Site - 100-H-10												
CDA0302C	RSVP or RTD	84	21MAR06A	22JUN06A	10,137	05NOV07	08APR08	327	357	■ RSVP or RTD Report - CS Site - 100-H-10												
CDA0303 Confirmatory Sampling Site - 100-H-3																						
CDA0303A	Work	50	19DEC05A	14MAR06A	12,333	05JAN06	04APR06	8	12	■ Work Instructions - CS Site - 100-H-3												
CDA0303B	Smpgl and	25	23APR08*	05JUN08	17,268	08OCT07	19NOV07	-108	-108	■ Smpgl and Analysis - CS Site - 100-H-3												











Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year													
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
<b>CDC0603 Remediate Burial Ground - 118-H-2</b>																							
CDC0602B	Loadout - Rem	5	11MAR10	18MAR10	70,196	12AUG09	03SEP09	-114	-105														
CDC0602D	Closeout Smpg	243	22MAR10	06JUN11	1,060	08SEP09	23JUN10	-105	-189														
CDC0602C	Backfill - Rem	2	27JUN11	28JUN11	16,260	09AUG10	16AUG10	-176	-173														
CDC0602E	Revegetation -	49	25OCT11	25JAN12	316	28SEP10	28SEP10	-215	-263														
<b>CDC0603 Remediate Burial Ground - 118-H-3</b>																							
CDC0603A	Excavation -	16	24FEB10	23MAR10	1,527,904	10AUG09	29SEP09	-107	-94														
CDC0603B	Loadout - Rem	20	24MAR10	27APR10	470,158	08SEP09	27OCT09	-107	-98														
CDC0603D	Closeout Smpg	243	28APR10	14JUL11	20,720	28OCT09	16AUG10	-98	-182														
CDC0603C	Backfill - Rem	4	18JUL11	21JUL11	317,762	17AUG10	01SEP10	-182	-176														
CDC0603E	Revegetation -	49	26JAN12	23APR12	6,156	29SEP10	30SEP10	-263	-310														
<b>CDC0604 Remediate Burial Ground - 118-H-4</b>																							
CDC0604A	Excavation -	2	24MAR10	25MAR10	197,712	30SEP09	13OCT09	-94	-88														
CDC0604B	Loadout - Rem	4	21APR10	27APR10	99,040	28OCT09	10NOV09	-94	-90														
CDC0604D	Closeout Smpg	243	28APR10	14JUL11	2,572	11NOV09	30AUG10	-90	-174														
CDC0604C	Backfill - Rem	1	25JUL11	25JUL11	39,440	02SEP10	08SEP10	-176	-174														
CDC0604E	Revegetation -	49	24APR12	19JUL12	764	04OCT10	04OCT10	-310	-358														
<b>CDC0605 Remediate Burial Ground - 118-H-5</b>																							
CDC0605A	Excavation -	2	29MAR10	30MAR10	1,397,490	14OCT09	20OCT09	-88	-86														
CDC0605B	Loadout - Rem	2	26APR10	27APR10	563,552	11NOV09	17NOV09	-88	-86														
CDC0605D	Closeout Smpg	243	28APR10	14JUL11	1,449,282	18NOV09	07SEP10	-86	-170														
CDC0605C	Backfill - Rem	1	26JUL11	26JUL11	417,926	09SEP10	13SEP10	-174	-173														
CDC0605E	Revegetation -	55	23JUL12	25OCT12	86,204	05OCT10	05OCT10	-358	-412														
<b>CDR25 Fld. Rem.-100 H Non Site Specific Support</b>																							
0041.99918	TPA M-16-50	0	01OCT08*		0	31JUL07*		-235	-235														
0041.99922	TPA M-16-51	0		25OCT12*	0		29DEC10*	-367	-367														
<b>CDR2501 Fld. Rem.-100 H Non Site Specific Support</b>																							
CDR2501A1	Fld. Rem.-100	165	03OCT05A	28SEP06A	67,833	05DEC05*	28SEP06	34	0														
CDR2501A2	Fld. Rem.-100	165	01OCT07*	28JUL08	356,208	02OCT06	27SEP07	-199	-165														
CDR2501A3	Fld. Rem.-100	16	21JUL08*	14AUG08	107,951	01OCT07	30SEP08	-160	25														
CDR2501A4	Fld. Rem.-100	242	21JUL08	01OCT09	1,514,877	01OCT08	30SEP09	41	-1														
CDR2501A6	Fld. Rem.-100	200	01OCT09*	30SEP10	20,972	04OCT10	29DEC10	200	47														
CDR2501A7	Fld. Rem.-100	200	01OCT09	30SEP10	131,172	03JAN12*	27SEP12	447	398														
CDR2501A5	Fld. Rem.-100	401	01OCT08*	04OCT10	1,341,927	01OCT09	30SEP10	200	-1														
CDR2501A8	Fld. Rem.-100	464	04JAN10*	25APR12	98,957	01OCT12*	30APR13	550	202														

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year													
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
<b>IS ISS</b>																							
<b>BBA Iss-Interim Safe Storage</b>																							
0041.99935	TPA M-93-18	0		20OCT05A	0		29DEC05*	36	36	◆TPA M-93-18 Comp ISS 105 H													
<b>BBA2101 Interim Safe Storage - 105-H REACTOR (ISS)</b>																							
BBA2101B	Deact & Decom	4	29AUG05A	29AUG05A	0	31AUG05	07SEP05	2	5	■ Deact & Decom - ISS - 105-H Reactor													
BBA2101C	Demolition	3	29AUG05A	29AUG05A	0	08SEP05	13SEP05	6	8	■ Demolition Above Grade - ISS - 105-H Reactor													
BBA2101D	Demolition	4	29AUG05A	29AUG05A	0	14SEP05	20SEP05	9	12	■ Demolition Below Grade - ISS - 105-H Reactor													
BBA2101E	Loadout - ISS -	5	29AUG05A	29AUG05A	0	06OCT05	13OCT05	22	26	■ Loadout - ISS - 105-H Reactor													
BBA2101F	SSE Design -	5	29AUG05A	29AUG05A	0	01SEP05	12SEP05	3	7	■ SSE Design - ISS - 105-H Reactor													
BBA2101H	Closeout/Transit	8	29AUG05A	01SEP05A	154,677	03JAN06	28SEP06	67	214	■ Closeout/Transition - ISS - 105-H Reactor													
BBA2101G	SSE - ISS -	141	29AUG05A	29JUN06A	1,205,762	17OCT05	29DEC05	27	-101	■ SSE - ISS - 105-H Reactor													
BBA2101A	Plan &	215	29AUG05A	20JUL06A	0	29AUG05	31AUG05	0	-176	■ Plan & Document - ISS - 105-H Reactor													
<b>100 K AREA 100 K Area</b>																							
<b>DE Remedial Design</b>																							
<b>CED0101 Fld. Rem.-100K Area Design</b>																							
CED0101A	Fld. Rem.-100K	400	03OCT05A	30SEP08	624,018	02OCT06*	30SEP08	199	0	■ Fld. Rem.-100K Area Design													
<b>DD D4</b>																							
<b>AAE0755 D4 Building - 183 KW</b>																							
AAE0755A	Plan &	2	29AUG05A	30AUG05A	62,945	03JAN06*	24JAN06	67	78	■ Plan & Document - 183 KW													
AAE0755B	Deact & Decom	21	29AUG05A	29SEP05A	218,265	11JAN06	15FEB06	72	74	■ Deact & Decom - 183 KW													
AAE0755E	Loadout - 183	10	03OCT05A	18OCT05A	42,050	06MAR06	21MAR06	82	82	■ Loadout - 183 KW													
AAE0755C	Demolition	33	29AUG05A	25OCT05A	100,587	16FEB06	27FEB06	93	65	■ Demolition Above Grade - 183 KW													
<b>AAE0757 D4 Building - 183.1KW</b>																							
AAE0757B	Deact & Decom	32	19SEP05A	10NOV05A	274,256	22APR08	16JUL08	517	533	■ Deact & Decom - 183.1KW													
AAE0757A	Plan &	4	03JUL06A	16MAY07	0	01APR08*	21MAY08	348	203	■ Plan & Document - 183.1KW													
<b>AAE10 D4-Retention Basins</b>																							
0041.00219	Release KE	0	26MAR07*		0	02OCT06*		-94	-94	◆ Release KE Reactor													
<b>RA Field Remediation</b>																							
<b>CEA0316 Confirmatory Sampling Site - 100-K-63</b>																							
CEA0316B	Smpg and	25	26MAR07	07MAY07	40,121	15DEC10	01FEB11	746	746	■ Smpg and Analysis - CS Site - 100-K-63													
CEA0316A	Work	50	26MAR07	20JUN07	7,532	29OCT09	02FEB10	522	522	■ Work Instructions - CS Site - 100-K-63													
CEA0316C	RSVP or RTD	84	26MAR07	21AUG07	10,137	07FEB11	06JUL11	773	773	■ RSVP or RTD Report - CS Site - 100-K-63													
<b>CEA0317 Confirmatory Sampling Site - 100-K-64</b>																							
CEA0317B	Smpg and	25	28MAR07	09MAY07	40,121	20DEC10	03FEB11	746	746	■ Smpg and Analysis - CS Site - 100-K-64													
CEA0317A	Work	50	09APR07	05JUL07	7,532	12NOV09	17FEB10	522	522	■ Work Instructions - CS Site - 100-K-64													
CEA0317C	RSVP or RTD	84	28MAR07	23AUG07	10,137	09FEB11	11JUL11	773	773	■ RSVP or RTD Report - CS Site - 100-K-64													





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year													
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
<b>CEC0542 Remediate Waste Site - 116-KW-3</b>																							
CEC0542E	Revegetation -	2	08FEB06A	28MAR06A	19,871	01NOV05	02NOV05	-52	-77														
<b>CEC0543 Remediate Waste Site - 116-K-1</b>																							
CEC0543E	Revegetation -	2	08FEB06A	28MAR06A	11,788	03NOV05	07NOV05	-50	-75														
<b>CEC0602 Remediate Burial Ground - 118-K-1</b>																							
CEC0602A	Excavation -	131	30MAY06A	31MAR09	4,191,479	03JAN06*	14DEC06	-82	-456														
CEC0602B	Loadout - Rem	131	30MAY06A	31MAR09	2,507,123	31JAN06	17JAN07	-66	-440														
CEC0602D	Closeout Smpng	350	01OCT07*	30JUN09	57,462	18JAN07	30OCT07	-141	-332														
CEC0602C	Backfill - Rem	352	31DEC07	29SEP09	1,270,964	31OCT07	10MAR08	-30	-313														
CEC0602E	Revegetation -	200	01OCT09*	30SEP10	40,122	11MAR08	02APR08	-314	-500														
<b>CER2501 Fld. Rem.-100K Non Site Specific Support</b>																							
CER2501A3	Fld. Rem.-100K	199	14SEP06A	27SEP07	295,059	02OCT06	27SEP07	9	0														
CER2501A4	Fld. Rem.-100K	201	01OCT07	30SEP08	388,416	01OCT07	31MAR08	0	-102														
CER2501A5	Fld. Rem.-100K	200	01OCT08	30SEP09	70,587	01APR09*	30SEP09	98	0														
CER2501A9	Fld. Rem.-100K	116	09MAR10	30SEP10	1,298,960	01OCT12	30APR13	514	514														
<b>IS ISS</b>																							
<b>BCA21 Iss-Interim Safe Storage</b>																							
0041.99936	TPA M-93-23	0		03MAR06A	0		31JUL06*	83	83														
<b>BCA2101 Interim Safe Storage - 105-KE REACTOR (ISS)</b>																							
BCA2101A	Plan &	201	05OCT05A	22MAR07A	186,009	01MAY06*	31JAN07	112	-28														
<b>BCA2102 Interim Safe Storage - 105-KW REACTOR (ISS)</b>																							
BCA2102A	Plan &	122	27JUL06A	22MAR07A	67,701	03DEC07*	10JUL08	269	261														
<b>100 N AREA</b>																							
<b>DE Remedial Design</b>																							
<b>CFC0101 Fld. Rem.-100 N Area Design</b>																							
CFC0101A	Fld. Rem.-100	167	12SEP05A	27SEP07	718,143	02OCT06*	01AUG07	211	-32														
<b>DD D4</b>																							
<b>AAF0702 D4 Building - 105NB</b>																							
AAF0702B	Deact & Decom	41	18MAY06A	25JAN07A	499,268	10MAR09	19MAY09	559	463														
AAF0702A	Plan &	26	27DEC05A	22MAR07	48,601	19FEB09	06APR09	629	407														
AAF0702C	Demolition	12	02JUL08*	23JUL08	57,421	20MAY09	08JUN09	176	174														
AAF0702D	Demolition	4	24JUL08	30JUL08	38,012	09JUN09	06JUL09	174	185														
AAF0702E	Loadout -	16	22JUL08	18AUG08	15,225	17JUN09	22JUL09	181	185														
AAF0702F	Transition/Final	16	19AUG08	16SEP08	13,151	23JUL09	18AUG09	185	184														
<b>AAF0703 D4 Building - 107N</b>																							
AAF0703B	Deact & Decom	22	29AUG05A	28SEP06A	231,173	01JUL08*	18FEB09	567	475														

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year																
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16					
<b>AAF0704 D4 Building - 108N</b>																										
AAF0703A	Plan &	256	29AUG05A	01APR08	21,204	29AUG05	23JAN06	0	-438	■ Plan & Document - 107N																
AAF0703C	Demolition	50	19FEB09	18MAY09	48,960	19FEB09	15APR09	0	-18	■ Demolition Above Grade - 107N																
AAF0703D	Demolition	102	19MAY09	17NOV09	42,378	16APR09	09JUL09	-18	-73	■ Demolition Below Grade - 107N																
AAF0703E	Loadout - 107N	201	17NOV08	17NOV09	15,573	14MAY09	03SEP09	97	-41	■ Loadout - 107N																
AAF0703F	Transition/Final	20	18NOV09	29DEC09	10,355	08SEP09	01DEC09	-41	-14	■ Transition/Final Closure - 107N																
AAF0703M	Complete Bldg	0		09MAR10	0		03SEP09	-99	-99	◆ Complete Bldg 107N Demolition & 118-H-1 Loadout																
<b>AAF0704 D4 Building - 108N</b>																										
AAF0704A	Plan &	1	23JAN06A	21MAR06A	5,939	02APR12	03MAY12	1,237	1,224	■ Plan & Document - 108N																
AAF0704B	Deact & Decom	1	07MAR06A	22MAR06A	103,755	16APR12	11JUN12	1,221	1,243	■ Deact & Decom - 108N																
AAF0704C	Demolition	1	23MAR06A	23MAR06A	29,832	12JUN12	25JUN12	1,243	1,250	■ Demolition Above Grade - 108N																
AAF0704D	Demolition	1	04APR06A	30SEP06A	1,606	26JUN12	17JUL12	1,245	1,157	■ Demolition Below Grade - 108N																
AAF0704E	Loadout - 108N	40	03APR06A	30SEP06A	1,798	03JUL12	31JUL12	1,250	1,165	■ Loadout - 108N																
AAF0704F	Transition/Final	16	17MAY07	14JUN07	3,645	01AUG12	21AUG12	1,040	1,036	■ Transition/Final Closure - 108N																
AAF0704M	Compl 100N	0		13DEC12	0		31JUL12	-75	-75	◆ Compl 100N Ancillary Facil Demo(excl 105-N,109-N)																
<b>AAF0706 D4 Building - 1112N</b>																										
AAF0706A	Plan &	25	03JUL06A	30SEP06A	1,238	01OCT07*	12NOV07	249	224	■ Plan & Document - 1112N																
AAF0706B	Deact & Decom	8	23JUL08*	05AUG08	26,829	17OCT07	31DEC07	-152	-121	■ Deact & Decom - 1112N																
AAF0706C	Demolition	12	06AUG08	26AUG08	14,151	02JAN08	17JAN08	-121	-123	■ Demolition Above Grade - 1112N																
AAF0706D	Demolition	8	27AUG08	10SEP08	0	21JAN08	13FEB08	-123	-116	■ Demolition Below Grade - 1112N																
AAF0706E	Loadout -	20	25AUG08	29SEP08	4,125	29JAN08	04MAR08	-116	-116	■ Loadout - 1112N																
AAF0706F	Transition/Final	16	30SEP08	27OCT08	4,625	05MAR08	31MAR08	-116	-117	■ Transition/Final Closure - 1112N																
<b>AAF0707 D4 Building - 1120N</b>																										
AAF0707A	Plan &	5	04OCT10*	11OCT10	39,477	02AUG10*	28SEP10	-35	-7	■ Plan & Document - 1120N																
AAF0707B	Deact & Decom	8	26OCT10	08NOV10	154,655	24AUG10	29NOV10	-35	10	■ Deact & Decom - 1120N																
AAF0707C	Demolition	4	09NOV10	15NOV10	60,077	30NOV10	21DEC10	10	19	■ Demolition Above Grade - 1120N																
AAF0707D	Demolition	4	16NOV10	22NOV10	0	27DEC10	31JAN11	19	35	■ Demolition Below Grade - 1120N																
AAF0707E	Loadout -	8	06DEC10	16DEC10	26,935	06JAN11	23FEB11	16	35	■ Loadout - 1120N																
AAF0707F	Transition/Final	16	20DEC10	19JAN11	16,561	24FEB11	30MAR11	35	39	■ Transition/Final Closure - 1120N																
<b>AAF0708 D4 Building - 1143N</b>																										
AAF0708A	Plan &	21	03JUL06A	24APR07	17,301	01DEC10*	11JAN11	882	741	■ Plan & Document - 1143N																
AAF0708B	Deact & Decom	2	12MAY11*	16MAY11	178,740	15DEC10	15FEB11	-81	-50	■ Deact & Decom - 1143N																
AAF0708C	Demolition	4	17MAY11	23MAY11	26,008	16FEB11	02MAR11	-50	-46	■ Demolition Above Grade - 1143N																
AAF0708D	Demolition	3	24MAY11	26MAY11	0	03MAR11	23MAR11	-46	-37	■ Demolition Below Grade - 1143N																
AAF0708E	Loadout -	7	01JUN11	13JUN11	11,661	09MAR11	06APR11	-47	-37	■ Loadout - 1143N																

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16														
										Gantt Chart														
AAF0708F	Transition/Final	16	14JUN11	12JUL11	7,169	07APR11	27APR11	-37	-41	Transition/Final Closure - 1143N														
AAF0709 D4 Building - 117N																								
AAF0709A	Plan &	70	21AUG06A	12APR07	28,296	05SEP06*	11JAN07	8	-51	Plan & Document - 117N														
AAF0709B	Deact & Decom	8	07MAY08*	20MAY08	847,060	24OCT06	16MAY07	-306	-202	Deact & Decom - 117N														
AAF0709C	Demolition	12	21MAY08	11JUN08	43,713	17MAY07	09JUL07	-202	-186	Demolition Above Grade - 117N														
AAF0709D	Demolition	16	12JUN08	10JUL08	10,434	10JUL07	20SEP07	-186	-160	Demolition Below Grade - 117N														
AAF0709E	Loadout - 117N	28	14JUL08	28AUG08	6,391	02AUG07	08NOV07	-188	-160	Loadout - 117N														
AAF0709F	Transition/Final	16	02SEP08	29SEP08	9,451	12NOV07	30JAN08	-160	-134	Transition/Final Closure - 117N														
AAF0710 D4 Building - 117NVH																								
AAF0710A	Plan &	50	03JUL06A	29MAR07	319	15JAN07	11APR07	105	7	Plan & Document - 117NVH														
AAF0710B	Deact & Decom	8	07MAY08	20MAY08	12,702	20FEB07	11JUL07	-244	-172	Deact & Decom - 117NVH														
AAF0710C	Demolition	12	21MAY08	11JUN08	2,652	12JUL07	15AUG07	-172	-164	Demolition Above Grade - 117NVH														
AAF0710D	Demolition	16	12JUN08	10JUL08	505	16AUG07	09OCT07	-164	-150	Demolition Below Grade - 117NVH														
AAF0710E	Loadout -	28	26JUN08	14AUG08	663	05SEP07	13NOV07	-162	-150	Loadout - 117NVH														
AAF0710F	Transition/Final	16	02SEP08	29SEP08	335	05DEC07	30JAN08	-148	-134	Transition/Final Closure - 117NVH														
AAF0711 D4 Building - 119N																								
AAF0711A	Plan &	23	03OCT05A	22JUN06A	1,100	03JUL06*	15AUG06	149	29	Plan & Document - 119N														
AAF0711B	Deact & Decom	8	24MAY06A	22JUN06A	19,779	20JUL06	27SEP06	31	53	Deact & Decom - 119N														
AAF0711C	Demolition	1	03JUL06A	10JUL06A	5,701	28SEP06	16OCT06	49	55	Demolition Above Grade - 119N														
AAF0711D	Demolition	1	03JUL06A	10JUL06A	1,179	17OCT06	09NOV06	59	70	Demolition Below Grade - 119N														
AAF0711E	Loadout - 119N	1	05JUL06A	10JUL06A	1,321	25OCT06	30NOV06	63	80	Loadout - 119N														
AAF0711F	Transition/Final	1	18SEP06A	27SEP06A	714	04DEC06	02JAN07	42	50	Transition/Final Closure - 119N														
AAF0712 D4 Building - 119NA																								
AAF0712A	Plan &	25	03OCT05A	16FEB06A	1,100	03JUL06	15AUG06	149	99	Plan & Document - 119NA														
AAF0712B	Deact & Decom	39	24MAY06A	22JUN06A	19,779	20JUL06	27SEP06	31	53	Deact & Decom - 119NA														
AAF0712C	Demolition	10	26JUN06A	29JUN06A	5,701	28SEP06	16OCT06	53	59	Demolition Above Grade - 119NA														
AAF0712D	Demolition	15	03JUL06A	10JUL06A	1,179	17OCT06	09NOV06	59	70	Demolition Below Grade - 119NA														
AAF0712E	Loadout -	20	03JUL06A	10JUL06A	1,321	25OCT06	30NOV06	64	80	Loadout - 119NA														
AAF0712F	Transition/Final	15	18SEP06A	27SEP06A	714	04DEC06	02JAN07	42	50	Transition/Final Closure - 119NA														
AAF0713 D4 Building - 11N																								
AAF0713B	Deact & Decom	2	08JAN07A	09JAN07A	7,208	09FEB09	02MAR09	418	428	Deact & Decom - 11N														
AAF0713A	Plan &	8	03JUL06A	25JAN07A	319	03FEB09	17FEB09	516	411	Plan & Document - 11N														
AAF0713C	Demolition	2	29JAN07A	06MAR07A	2,629	03MAR09	05MAR09	418	400	Demolition Above Grade - 11N														
AAF0713D	Demolition	2	29JAN07A	06MAR07A	716	09MAR09	16MAR09	421	405	Demolition Below Grade - 11N														
AAF0713E	Loadout - 11N	21	27FEB07A	08MAR07A	651	11MAR09	19MAR09	407	406	Loadout - 11N														

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
AAF0713F	Transition/Final	17	15JUL08	11AUG08	350	23MAR09	30MAR09	136	125	Transition/Final Closure - 11N												
AAF0714 D4 Building - 1303N																						
AAF0714A	Plan &	20	26AUG08*	30SEP08	32,998	04OCT10*	28OCT10	420	416	Plan & Document - 1303N												
AAF0714B	Deact & Decom	16	01OCT08	28OCT08	69,470	13OCT10	29NOV10	406	415	Deact & Decom - 1303N												
AAF0714C	Demolition	6	01OCT09*	12OCT09	0	30NOV10	08DEC10	231	231	Demolition Above Grade - 1303N												
AAF0714D	Demolition	9	13OCT09	27OCT09	10,981	09DEC10	28DEC10	231	231	Demolition Below Grade - 1303N												
AAF0714E	Loadout -	13	15OCT09	05NOV09	32,805	14DEC10	10JAN11	231	231	Loadout - 1303N												
AAF0714F	Transition/Final	14	09NOV09	03DEC09	18,966	11JAN11	25JAN11	231	226	Transition/Final Closure - 1303N												
AAF0715 D4 Building - 1313N																						
AAF0715B	Deact & Decom	80	03OCT05A	09MAR06A	14,825	04OCT05	01MAR06	1	-5	Deact & Decom - 1313N												
AAF0715D	Demolition	30	13MAR06A	18APR06A	1,415	06APR06	30MAY06	15	23	Demolition Below Grade - 1313N												
AAF0715E	Loadout -	40	19APR06A	27APR06A	1,518	25APR06	05JUL06	3	37	Loadout - 1313N												
AAF0715A	Plan &	148	19SEP05A	21SEP06A	1,371	29AUG05	28NOV05	-11	-164	Plan & Document - 1313N												
AAF0715C	Demolition	33	03OCT05A	21SEP06A	6,795	02MAR06	05APR06	81	-94	Demolition Above Grade - 1313N												
AAF0715F	Transition/Final	16	04JAN07A	16APR07	853	06JUL06	28AUG06	-98	-125	Transition/Final Closure - 1313N												
AAF0716 D4 Building - 1314N																						
AAF0716A	Plan &	54	05JUN06A	19JUL06A	12,022	29AUG05	05DEC05	-152	-124	Plan & Document - 1314N												
AAF0716B	Deact & Decom	87	18JAN06A	17AUG06A	200,472	06OCT05	16MAR06	-54	-86	Deact & Decom - 1314N												
AAF0716C	Demolition	22	05SEP06A	07SEP06A	18,341	20MAR06	25APR06	-94	-75	Demolition Above Grade - 1314N												
AAF0716D	Demolition	33	13SEP06A	21DEC06A	4,378	26APR06	22JUN06	-77	-100	Demolition Below Grade - 1314N												
AAF0716E	Loadout -	43	21SEP06A	22JAN07A	2,682	17MAY06	02AUG06	-70	-92	Loadout - 1314N												
AAF0716F	Transition/Final	16	04JAN07A	16APR07	3,965	03AUG06	02OCT06	-82	-106	Transition/Final Closure - 1314N												
AAF0718 D4 Building - 1322N																						
AAF0718A	Plan &	50	03JUL06A	26APR07A	1,744	02OCT06*	03JAN07	50	-64	Plan & Document - 1322N												
AAF0718B	Deact & Decom	2	21JUL08*	22JUL08	101,049	06NOV06	03APR07	-339	-261	Deact & Decom - 1322N												
AAF0718C	Demolition	2	23JUL08	24JUL08	21,148	04APR07	08MAY07	-261	-243	Demolition Above Grade - 1322N												
AAF0718D	Demolition	3	28JUL08	30JUL08	4,376	09MAY07	02JUL07	-243	-216	Demolition Below Grade - 1322N												
AAF0718E	Loadout -	5	27AUG08	04SEP08	4,848	29MAY07	07AUG07	-251	-216	Loadout - 1322N												
AAF0718F	Transition/Final	16	08SEP08	02OCT08	2,588	08AUG07	01OCT07	-216	-202	Transition/Final Closure - 1322N												
AAF0719 D4 Building - 1322NA																						
AAF0719A	Plan &	20	03JUL06A	30SEP06A	501	02OCT06	03JAN07	50	50	Plan & Document - 1322NA												
AAF0719B	Deact & Decom	2	28JUL08	29JUL08	47,823	06NOV06	03APR07	-343	-265	Deact & Decom - 1322NA												
AAF0719C	Demolition	2	30JUL08	31JUL08	10,010	04APR07	08MAY07	-265	-247	Demolition Above Grade - 1322NA												
AAF0719D	Demolition	3	04AUG08	06AUG08	2,108	09MAY07	02JUL07	-247	-220	Demolition Below Grade - 1322NA												
AAF0719E	Loadout -	5	04SEP08	11SEP08	2,309	29MAY07	07AUG07	-255	-220	Loadout - 1322NA												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
AAF0719F	Transition/Final	16	15SEP08	09OCT08	1,219	08AUG07	01OCT07	-220	-206	Transition/Final Closure - 1322NA												
AAF0720 D4 Building - 1322NB																						
AAF0720A	Plan &	20	03JUL06A	30SEP06A	500	02OCT06	03JAN07	50	50	Plan & Document - 1322NB												
AAF0720B	Deact & Decom	2	28JUL08	29JUL08	34,074	06NOV06	03APR07	-343	-265	Deact & Decom - 1322NB												
AAF0720C	Demolition	2	30JUL08	31JUL08	9,811	04APR07	08MAY07	-265	-247	Demolition Above Grade - 1322NB												
AAF0720D	Demolition	3	04AUG08	06AUG08	2,081	09MAY07	02JUL07	-247	-220	Demolition Below Grade - 1322NB												
AAF0720E	Loadout -	5	04SEP08	11SEP08	2,282	29MAY07	07AUG07	-255	-220	Loadout - 1322NB												
AAF0720F	Transition/Final	16	15SEP08	09OCT08	1,209	08AUG07	01OCT07	-220	-206	Transition/Final Closure - 1322NB												
AAF0721 D4 Building - 1322NC																						
AAF0721A	Plan &	20	03JUL06A	30SEP06A	500	02OCT06	03JAN07	50	50	Plan & Document - 1322NC												
AAF0721B	Deact & Decom	2	28JUL08	29JUL08	34,074	06NOV06	03APR07	-343	-265	Deact & Decom - 1322NC												
AAF0721C	Demolition	2	30JUL08	31JUL08	9,811	04APR07	08MAY07	-265	-247	Demolition Above Grade - 1322NC												
AAF0721D	Demolition	3	04AUG08	06AUG08	2,081	09MAY07	02JUL07	-247	-220	Demolition Below Grade - 1322NC												
AAF0721E	Loadout -	5	04SEP08	11SEP08	2,282	29MAY07	07AUG07	-255	-220	Loadout - 1322NC												
AAF0721F	Transition/Final	16	15SEP08	09OCT08	1,209	08AUG07	01OCT07	-220	-206	Transition/Final Closure - 1322NC												
AAF0722 D4 Building - 1330N																						
AAF0722B	Deact & Decom	2	15OCT08	16OCT08	119,484	15OCT08	11DEC08	0	30	Deact & Decom - 1330N												
AAF0722A	Plan &	42	01OCT08*	16DEC08	30,662	01OCT08*	04NOV08	0	-22	Plan & Document - 1330N												
AAF0722C	Demolition	2	17DEC08	18DEC08	46,414	15DEC08	30DEC08	-2	4	Demolition Above Grade - 1330N												
AAF0722D	Demolition	2	22DEC08	23DEC08	0	31DEC08	21JAN09	4	14	Demolition Below Grade - 1330N												
AAF0722E	Loadout -	4	06JAN09	12JAN09	20,810	08JAN09	04FEB09	2	14	Loadout - 1330N												
AAF0722F	Transition/Final	16	13JAN09	09FEB09	12,794	05FEB09	26FEB09	14	10	Transition/Final Closure - 1330N												
AAF0723 D4 Building - 1331N																						
AAF0723A	Plan &	71	03OCT05A	19DEC05A	104	01FEB10*	07JUN10	863	891	Plan & Document - 1331N												
AAF0723B	Deact & Decom	2	05DEC05A	19DEC05A	2,278	24MAR10	13OCT10	858	963	Deact & Decom - 1331N												
AAF0723C	Demolition	2	27DEC05A	27DEC05A	2,063	14OCT10	07DEC10	961	989	Demolition Above Grade - 1331N												
AAF0723D	Demolition	2	17JAN06A	18JAN06A	0	08DEC10	28FEB11	979	1,020	Demolition Below Grade - 1331N												
AAF0723E	Loadout -	12	18JAN06A	26JAN06A	652	10JAN11	19APR11	993	1,044	Loadout - 1331N												
AAF0723F	Transition/Final	5	06FEB06A	16MAR06A	315	20APR11	06JUL11	1,040	1,060	Transition/Final Closure - 1331N												
AAF0724 D4 Building - 1332N																						
AAF0724A	Plan &	6	03OCT05A	21NOV05A	900	03MAY10*	16AUG10	914	944	Plan & Document - 1332N												
AAF0724B	Deact & Decom	2	22NOV05A	22NOV05A	7,550	14JUN10	30NOV10	908	1,001	Deact & Decom - 1332N												
AAF0724C	Demolition	2	22NOV05A	22NOV05A	6,838	01DEC10	13JAN11	1,002	1,024	Demolition Above Grade - 1332N												
AAF0724D	Demolition	2	22NOV05A	22NOV05A	0	17JAN11	17MAR11	1,025	1,059	Demolition Below Grade - 1332N												
AAF0724E	Loadout -	2	22NOV05A	22NOV05A	2,162	03FEB11	27APR11	1,036	1,082	Loadout - 1332N												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Data												
AAF0724F	Transition/Final	5	22NOV05A	22NOV05A	1,043	28APR11	29JUN11	1,083	1,117	Transition/Final Closure - 1332N												
AAF0725 D4 Building - 13N																						
AAF0725A	Plan &	8	03JUL06A	25JAN07A	319	03FEB09	17FEB09	516	411	Plan & Document - 13N												
AAF0725B	Deact & Decom	2	24JAN07A	25JAN07A	7,182	09FEB09	02MAR09	408	418	Deact & Decom - 13N												
AAF0725C	Demolition	2	02JUL08*	07JUL08	2,619	03MAR09	05MAR09	131	132	Demolition Above Grade - 13N												
AAF0725D	Demolition	2	02JUL08	07JUL08	714	09MAR09	16MAR09	134	137	Demolition Below Grade - 13N												
AAF0725E	Loadout - 13N	4	08JUL08	14JUL08	648	11MAR09	19MAR09	134	136	Loadout - 13N												
AAF0725F	Transition/Final	16	15JUL08	11AUG08	349	23MAR09	30MAR09	136	125	Transition/Final Closure - 13N												
AAF0726 D4 Building - 1515N																						
AAF0726A	Plan &	23	03OCT05A	19DEC05A	36,341	01APR08*	08MAY08	497	477	Plan & Document - 1515N												
AAF0726B	Deact & Decom	2	05DEC05A	19DEC05A	369,943	16APR08	18JUN08	472	499	Deact & Decom - 1515N												
AAF0726C	Demolition	5	29DEC05A	29DEC05A	42,561	19JUN08	07JUL08	495	503	Demolition Above Grade - 1515N												
AAF0726D	Demolition	6	12JAN06A	12JAN06A	28,175	08JUL08	30JUL08	497	510	Demolition Below Grade - 1515N												
AAF0726E	Loadout -	8	03JAN06A	02FEB06A	11,285	16JUL08	14AUG08	508	507	Loadout - 1515N												
AAF0726F	Transition/Final	5	06FEB06A	16MAR06A	9,748	18AUG08	10SEP08	507	498	Transition/Final Closure - 1515N												
AAF0727 D4 Building - 1516N																						
AAF0727A	Plan &	23	03OCT05A	19DEC05A	2,960	01APR08	08MAY08	497	477	Plan & Document - 1516N												
AAF0727B	Deact & Decom	3	05DEC05A	19DEC05A	21,602	16APR08	18JUN08	472	499	Deact & Decom - 1516N												
AAF0727C	Demolition	4	20DEC05A	21DEC05A	19,564	19JUN08	07JUL08	499	506	Demolition Above Grade - 1516N												
AAF0727D	Demolition	5	20DEC05A	21DEC05A	0	08JUL08	30JUL08	508	520	Demolition Below Grade - 1516N												
AAF0727E	Loadout -	16	09JAN06A	02FEB06A	6,186	16JUL08	14AUG08	505	507	Loadout - 1516N												
AAF0727F	Transition/Final	5	06FEB06A	16MAR06A	2,983	18AUG08	10SEP08	507	498	Transition/Final Closure - 1516N												
AAF0728 D4 Building - 1517N																						
AAF0728A	Plan &	23	03OCT05A	19DEC05A	3,977	01APR08	08MAY08	497	477	Plan & Document - 1517N												
AAF0728B	Deact & Decom	3	05DEC05A	19DEC05A	37,533	16APR08	18JUN08	472	499	Deact & Decom - 1517N												
AAF0728C	Demolition	4	27DEC05A	27DEC05A	6,656	19JUN08	07JUL08	497	505	Demolition Above Grade - 1517N												
AAF0728D	Demolition	5	17JAN06A	18JAN06A	0	08JUL08	30JUL08	495	507	Demolition Below Grade - 1517N												
AAF0728E	Loadout -	12	18JAN06A	26JAN06A	1,940	16JUL08	14AUG08	499	511	Loadout - 1517N												
AAF0728F	Transition/Final	5	06FEB06A	16MAR06A	2,175	18AUG08	10SEP08	507	498	Transition/Final Closure - 1517N												
AAF0729 D4 Building - 1518N																						
AAF0729A	Plan &	23	03OCT05A	19DEC05A	2,785	01APR08	08MAY08	497	477	Plan & Document - 1518N												
AAF0729B	Deact & Decom	3	05DEC05A	19DEC05A	36,843	16APR08	18JUN08	472	499	Deact & Decom - 1518N												
AAF0729C	Demolition	4	27DEC05A	27DEC05A	18,104	19JUN08	07JUL08	497	505	Demolition Above Grade - 1518N												
AAF0729D	Demolition	5	17JAN06A	18JAN06A	0	08JUL08	30JUL08	495	507	Demolition Below Grade - 1518N												
AAF0729E	Loadout -	7	18JAN06A	26JAN06A	5,724	16JUL08	14AUG08	499	511	Loadout - 1518N												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16											
										Gantt Chart Area											
AAF0729F	Transition/Final	5	06FEB06A	16MAR06A	2,760	18AUG08	10SEP08	507	498	■ Transition/Final Closure - 1518N											
AAF0730 D4 Building - 1519N																					
AAF0730A	Plan &	23	03OCT05A	19DEC05A	2,959	01APR08	08MAY08	497	477	■ Plan & Document - 1519N											
AAF0730B	Deact & Decom	3	05DEC05A	19DEC05A	57,663	16APR08	18JUN08	472	499	■ Deact & Decom - 1519N											
AAF0730C	Demolition	4	20DEC05A	21DEC05A	19,495	19JUN08	07JUL08	499	506	■ Demolition Above Grade - 1519N											
AAF0730D	Demolition	5	17JAN06A	18JAN06A	0	08JUL08	30JUL08	495	507	■ Demolition Below Grade - 1519N											
AAF0730E	Loadout -	11	18JAN06A	26JAN06A	6,164	16JUL08	14AUG08	499	511	■ Loadout - 1519N											
AAF0730F	Transition/Final	5	06FEB06A	16MAR06A	2,972	18AUG08	10SEP08	507	498	■ Transition/Final Closure - 1519N											
AAF0731 D4 Building - 151N																					
AAF0731A	Plan &	71	03OCT05A	15NOV05A	8,021	14JAN08*	15MAY08	453	498	■ Plan & Document - 151N											
AAF0731B	Deact & Decom	7	17NOV05A	05DEC05A	130,674	05MAR08	24SEP08	455	561	■ Deact & Decom - 151N											
AAF0731C	Demolition	12	06DEC05A	08DEC05A	13,904	25SEP08	13NOV08	561	587	■ Demolition Above Grade - 151N											
AAF0731D	Demolition	20	12DEC05A	26JAN06A	0	17NOV08	05FEB09	587	605	■ Demolition Below Grade - 151N											
AAF0731F	Transition/Final	5	23FEB06A	30MAR06A	4,544	01APR09	16JUN09	620	642	■ Transition/Final Closure - 151N											
AAF0731E	Loadout - 151N	12	06DEC05A	27APR06A	4,053	16DEC08	31MAR09	605	583	■ Loadout - 151N											
AAF0732 D4 Building - 153N																					
AAF0732A	Plan &	71	03OCT05A	15NOV05A	14,767	14JAN08*	15MAY08	453	498	■ Plan & Document - 153N											
AAF0732B	Deact & Decom	9	17NOV05A	12DEC05A	242,484	04MAR08	23SEP08	454	556	■ Deact & Decom - 153N											
AAF0732C	Demolition	13	27FEB06A	23FEB06A	25,822	24SEP08	11NOV08	517	545	■ Demolition Above Grade - 153N											
AAF0732D	Demolition	18	29MAR06A	30MAY06A	0	12NOV08	03FEB09	527	535	■ Demolition Below Grade - 153N											
AAF0732E	Loadout - 153N	6	07MAR06A	29JUN06A	7,527	10DEC08	25MAR09	554	545	■ Loadout - 153N											
AAF0732F	Transition/Final	1	03JUL06A	09NOV06A	8,439	26MAR09	10JUN09	545	514	■ Transition/Final Closure - 153N											
AAF0734 D4 Building - 1614N																					
AAF0734A	Plan &	50	13FEB12*	09MAY12	9	05JUL11*	29SEP11	-121	-121	■ Plan & Document - 1614N											
AAF0734B	Deact & Decom	80	20MAR12	08AUG12	1,152	09AUG11	04JAN12	-121	-121	■ Deact & Decom - 1614N											
AAF0734C	Demolition	20	09AUG12	13SEP12	1,043	05JAN12	08FEB12	-121	-121	■ Demolition Above Grade - 1614N											
AAF0734D	Demolition	30	17SEP12	06NOV12	0	09FEB12	03APR12	-121	-121	■ Demolition Below Grade - 1614N											
AAF0734E	Loadout -	40	03OCT12	13DEC12	330	29FEB12	08MAY12	-121	-121	■ Loadout - 1614N											
AAF0734F	Transition/Final	30	17DEC12	11FEB13	159	09MAY12	02JUL12	-121	-121	■ Transition/Final Closure - 1614N											
AAF0735 D4 Building - 163N																					
AAF0735B	Deact & Decom	14	13MAR06A	19APR06A	1,583,896	01MAY06*	20SEP07	28	285	■ Deact & Decom - 163N											
AAF0735A	Plan &	202	29AUG05A	28SEP06A	93,505	03OCT05*	04JAN06	19	-149	■ Plan & Document - 163N											
AAF0735C	Demolition	1	12JUL06A	11OCT06A	141,816	24SEP07	25OCT07	240	208	■ Demolition Above Grade - 163N											
AAF0735D	Demolition	20	05DEC06A	15FEB07A	0	29OCT07	20DEC07	180	170	■ Demolition Below Grade - 163N											
AAF0735E	Loadout - 163N	19	01OCT07*	31OCT07	63,583	14NOV07	30JAN08	26	47	■ Loadout - 163N											

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
AAF0735F	Transition/Final	16	01NOV07	03DEC07	39,093	31JAN08	25MAR08	47	61	Transition/Final Closure - 163N												
AAF0736 D4 Building - 166N																						
AAF0736B	Deact & Decom	80	27DEC05A	05JAN06A	25,061	07NOV05	04APR06	-25	49	Deact & Decom - 166N												
AAF0736D	Demolition	30	24APR06A	15MAY06A	0	10MAY06	03JUL06	10	27	Demolition Below Grade - 166N												
AAF0736C	Demolition	157	12SEP05A	18MAY06A	15,389	05APR06	09MAY06	112	-6	Demolition Above Grade - 166N												
AAF0736E	Loadout - 166N	40	16MAR06A	18MAY06A	5,921	30MAY06	08AUG06	41	44	Loadout - 166N												
AAF0736F	Transition/Final	30	22MAY06A	15JUN06A	2,874	09AUG06	02OCT06	44	59	Transition/Final Closure - 166N												
AAF0736A	Plan &	101	29AUG05A	24AUG06A	1,153	03OCT05*	04JAN06	19	-130	Plan & Document - 166N												
AAF0737 D4 Building - 1701N																						
AAF0737A	Plan &	55	08MAY06A	16MAY06A	1,154	01JUN10*	07SEP10	812	861	Plan & Document - 1701N (MO-992)												
AAF0737B	Deact & Decom	87	18MAY06A	31MAY06A	0	12JUL10	14DEC10	827	907	Deact & Decom - 1701N (MO-992)												
AAF0737C	Demolition	8	27JUN06A	03JUL06A	5,479	15DEC10	26JAN11	893	911	Demolition Above Grade - 1701N (MO-992)												
AAF0737D	Demolition	4	03JUL06A	10JUL06A	0	27JAN11	28MAR11	912	941	Demolition Below Grade - 1701N (MO-992)												
AAF0737E	Loadout -	4	05JUL06A	10JUL06A	0	16FEB11	04MAY11	922	963	Loadout - 1701N (MO-992)												
AAF0737F	Transition/Final	16	10JUL06A	24AUG06A	501	05MAY11	05JUL11	964	969	Transition/Final Closure - 1701N (MO-992)												
AAF0738 D4 Building - 1705N																						
AAF0738A	Plan &	185	03OCT05A	30MAR06A	41,925	03JUL06*	25JAN07	149	164	Plan & Document - 1705N												
AAF0738B	Deact & Decom	1	03JUL06A	20SEP06A	435,203	21SEP06	15AUG07	45	180	Deact & Decom - 1705N												
AAF0738C	Demolition	1	19SEP06A	21SEP06A	63,316	16AUG07	05NOV07	182	224	Demolition Above Grade - 1705N												
AAF0738D	Demolition	6	02JUL08	14JUL08	0	06NOV07	12MAR08	-130	-68	Demolition Below Grade - 1705N												
AAF0738E	Loadout -	3	15JUL08	17JUL08	28,388	19DEC07	02JUN08	-113	-26	Loadout - 1705N												
AAF0738F	Transition/Final	16	21JUL08	14AUG08	17,453	03JUN08	01OCT08	-26	26	Transition/Final Closure - 1705N												
AAF0739 D4 Building - 1705NA																						
AAF0739B	Deact & Decom	1	03JUL06A	06JUL06A	116,442	10OCT06	13NOV07	55	272	Deact & Decom - 1705NA												
AAF0739A	Plan &	1	01AUG06A	24AUG06A	7,368	03JUL06	13MAR07	-16	107	Plan & Document - 1705NA												
AAF0739C	Demolition	1	19SEP06A	21SEP06A	12,395	14NOV07	27FEB08	232	284	Demolition Above Grade - 1705NA												
AAF0739D	Demolition	4	02JUL08*	09JUL08	0	28FEB08	24JUL08	-70	9	Demolition Below Grade - 1705NA												
AAF0739E	Loadout -	2	10JUL08	14JUL08	3,613	17APR08	30OCT08	-46	62	Loadout - 1705NA												
AAF0739F	Transition/Final	16	15JUL08	11AUG08	4,051	03NOV08	06APR09	62	129	Transition/Final Closure - 1705NA												
AAF0740 D4 Building - 1706N																						
AAF0740B	Deact & Decom	1	03JUL06A	13JUL06A	109,490	10OCT06	13NOV07	55	268	Deact & Decom - 1706N												
AAF0740A	Plan &	1	01AUG06A	24AUG06A	6,130	03JUL06	13MAR07	-16	107	Plan & Document - 1706N												
AAF0740C	Demolition	1	19SEP06A	21SEP06A	31,489	14NOV07	27FEB08	232	284	Demolition Above Grade - 1706N												
AAF0740D	Demolition	2	02JUL08	07JUL08	6,495	28FEB08	24JUL08	-70	11	Demolition Below Grade - 1706N												
AAF0740E	Loadout -	2	08JUL08	09JUL08	7,342	17APR08	30OCT08	-44	64	Loadout - 1706N												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
AAF0740F	Transition/Final	16	10JUL08	06AUG08	3,858	03NOV08	06APR09	64	131	Transition/Final Closure - 1706N												
AAF0741 D4 Building - 1707N											Plan & Document - 1707N											
AAF0741A	Plan &	36	20MAR06A	10MAY06A	2,663	01JUN11	29AUG11	1,040	1,059	Deact & Decom - 1707N												
AAF0741B	Deact & Decom	1	10JUL06A	10JUL06A	19,196	07JUL11	29NOV11	998	1,077	Demolition Above Grade - 1707N												
AAF0741C	Demolition	1	11JUL06A	11JUL06A	17,385	30NOV11	09JAN12	1,077	1,096	Demolition Below Grade - 1707N												
AAF0741D	Demolition	1	12JUL06A	12JUL06A	0	10JAN12	01MAR12	1,096	1,125	Loadout - 1707N												
AAF0741E	Loadout -	1	11JUL06A	13JUL06A	5,497	26JAN12	05APR12	1,107	1,144	Transition/Final Closure - 1707N												
AAF0741F	Transition/Final	1	27JUL06A	03MAY07	2,651	09APR12	30MAY12	1,137	1,013													
AAF0742 D4 Building - 1712N											Plan & Document - 1712N											
AAF0742A	Plan &	8	03JUL06A	29JAN07A	102	31JAN08*	13FEB08	315	209	Deact & Decom - 1712N												
AAF0742B	Deact & Decom	3	14JUL08*	16JUL08	2,038	06FEB08	27FEB08	-87	-78	Demolition Above Grade - 1712N												
AAF0742C	Demolition	3	17JUL08	22JUL08	1,855	28FEB08	04MAR08	-78	-78	Demolition Below Grade - 1712N												
AAF0742D	Demolition	3	23JUL08	28JUL08	0	05MAR08	12MAR08	-78	-76	Loadout - 1712N												
AAF0742E	Loadout -	6	23JUL08	31JUL08	586	10MAR08	18MAR08	-76	-76	Transition/Final Closure - 1712N												
AAF0742F	Transition/Final	16	04AUG08	28AUG08	283	19MAR08	26MAR08	-76	-87													
AAF0743 D4 Building - 1714N											Plan & Document - 1714N											
AAF0743A	Plan &	8	03JUL06A	29JAN07A	1,014	31JAN08	13FEB08	315	209	Deact & Decom - 1714N												
AAF0743B	Deact & Decom	3	30JUL08*	04AUG08	3,473	06FEB08	27FEB08	-97	-88	Demolition Above Grade - 1714N												
AAF0743C	Demolition	3	05AUG08	07AUG08	1,836	28FEB08	04MAR08	-88	-88	Demolition Below Grade - 1714N												
AAF0743D	Demolition	3	11AUG08	13AUG08	0	05MAR08	12MAR08	-88	-86	Loadout - 1714N												
AAF0743E	Loadout -	6	11AUG08	19AUG08	535	10MAR08	18MAR08	-86	-86	Transition/Final Closure - 1714N												
AAF0743F	Transition/Final	16	20AUG08	17SEP08	600	19MAR08	26MAR08	-86	-97													
AAF0744 D4 Building - 1714NA											Plan & Document - 1714NA											
AAF0744A	Plan &	8	08JAN07A	29JAN07A	1,371	31JAN08	13FEB08	214	209	Deact & Decom - 1714NA												
AAF0744B	Deact & Decom	3	14AUG08*	19AUG08	4,341	06FEB08	27FEB08	-106	-97	Demolition Above Grade - 1714NA												
AAF0744C	Demolition	3	20AUG08	25AUG08	2,294	28FEB08	04MAR08	-97	-97	Demolition Below Grade - 1714NA												
AAF0744D	Demolition	3	26AUG08	28AUG08	0	05MAR08	12MAR08	-97	-95	Loadout - 1714NA												
AAF0744E	Loadout -	6	26AUG08	04SEP08	669	10MAR08	18MAR08	-95	-95	Transition/Final Closure - 1714NA												
AAF0744F	Transition/Final	16	08SEP08	02OCT08	750	19MAR08	26MAR08	-95	-106													
AAF0745 D4 Building - 1714NB											Plan & Document - 1714NB											
AAF0745A	Plan &	20	08JAN07A	29JAN07A	788	31JAN08	13FEB08	214	209	Deact & Decom - 1714NB												
AAF0745B	Deact & Decom	3	02SEP08*	04SEP08	3,464	06FEB08	27FEB08	-115	-106	Demolition Above Grade - 1714NB												
AAF0745C	Demolition	3	08SEP08	10SEP08	1,394	28FEB08	04MAR08	-106	-106	Demolition Below Grade - 1714NB												
AAF0745D	Demolition	3	11SEP08	16SEP08	330	05MAR08	12MAR08	-106	-104	Loadout - 1714NB												
AAF0745E	Loadout -	6	11SEP08	22SEP08	204	10MAR08	18MAR08	-104	-104													

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
AAF0745F	Transition/Final	16	23SEP08	20OCT08	301	19MAR08	26MAR08	-104	-115	Transition/Final Closure - 1714NB												
AAF0747 D4 Building - 1723N																						
AAF0747B	Deact & Decom	1	17MAY06A	17MAY06A	809,641	07JUL11	29NOV11	1,026	1,105	Deact & Decom - 1723N												
AAF0747A	Plan &	1	13MAR06A	18MAY06A	79,300	01JUN11*	29AUG11	1,044	1,054	Plan & Document - 1723N												
AAF0747C	Demolition	1	18MAY06A	25MAY06A	93,115	30NOV11	09JAN12	1,105	1,120	Demolition Above Grade - 1723N												
AAF0747D	Demolition	1	25MAY06A	08JUN06A	61,641	10JAN12	01MAR12	1,121	1,143	Demolition Below Grade - 1723N												
AAF0747E	Loadout -	1	25MAY06A	08JUN06A	24,690	26JAN12	05APR12	1,131	1,163	Loadout - 1723N												
AAF0747F	Transition/Final	16	21JUN06A	07SEP06A	21,326	09APR12	30MAY12	1,157	1,143	Transition/Final Closure - 1723N												
AAF0748 D4 Building - 181N																						
AAF0748A	Plan &	20	27FEB12*	29MAR12	0	01JUN11	29AUG11	-146	-116	Plan & Document - 181N												
AAF0748B	Deact & Decom	16	02APR12	26APR12	562,522	07JUL11	29NOV11	-146	-82	Deact & Decom - 181N												
AAF0748C	Demolition	12	30APR12	17MAY12	33,192	30NOV11	09JAN12	-82	-74	Demolition Above Grade - 181N												
AAF0748D	Demolition	8	21MAY12	04JUN12	8,965	10JAN12	01MAR12	-74	-52	Demolition Below Grade - 181N												
AAF0748E	Loadout - 181N	20	05JUN12	10JUL12	24,630	26JAN12	05APR12	-72	-52	Loadout - 181N												
AAF0748F	Transition/Final	16	11JUL12	07AUG12	15,143	09APR12	30MAY12	-52	-38	Transition/Final Closure - 181N												
AAF0749 D4 Building - 181NE																						
AAF0749A	Plan &	20	10JAN12*	13FEB12	36,389	01JUN11	29AUG11	-120	-90	Plan & Document - 181NE												
AAF0749B	Deact & Decom	4	14FEB12	21FEB12	627,112	07JUL11	29NOV11	-120	-44	Deact & Decom - 181NE												
AAF0749C	Demolition	4	22FEB12	28FEB12	33,228	30NOV11	09JAN12	-44	-28	Demolition Above Grade - 181NE												
AAF0749D	Demolition	4	29FEB12	06MAR12	8,975	10JAN12	01MAR12	-28	-2	Demolition Below Grade - 181NE												
AAF0749E	Loadout -	8	28MAR12	10APR12	24,657	26JAN12	05APR12	-34	-2	Loadout - 181NE												
AAF0749F	Transition/Final	16	11APR12	08MAY12	15,160	09APR12	30MAY12	-2	12	Transition/Final Closure - 181NE												
AAF0750 D4 Building - 182N																						
AAF0750A	Plan &	214	29AUG05A	19APR07	129,579	04OCT10*	12JAN11	1,018	744	Plan & Document - 182N												
AAF0750B	Deact & Decom	38	01OCT07*	06DEC07	1,322,049	10NOV10	20APR11	623	672	Deact & Decom - 182N												
AAF0750C	Demolition	12	10DEC07	02JAN08	152,041	21APR11	31MAY11	672	682	Demolition Above Grade - 182N												
AAF0750D	Demolition	20	03JAN08	06FEB08	100,650	01JUN11	28JUL11	682	695	Demolition Below Grade - 182N												
AAF0750E	Loadout - 182N	32	18DEC07	14FEB08	40,314	22JUN11	07SEP11	701	712	Loadout - 182N												
AAF0750F	Transition/Final	16	19FEB08	17MAR08	34,821	08SEP11	03NOV11	712	729	Transition/Final Closure - 182N												
AAF0751 D4 Building - 183N																						
AAF0751B	Deact & Decom	143	29AUG05A	25MAY06A	323,742	03OCT11*	29DEC11	1,217	1,116	Deact & Decom - 183N												
AAF0751D	Demolition	16	05SEP06A	29MAR07	0	24JAN12	23FEB12	1,074	979	Demolition Below Grade - 183N												
AAF0751C	Demolition	231	06SEP05A	05APR07	34,464	03JAN12	23JAN12	1,261	957	Demolition Above Grade - 183N												
AAF0751A	Plan &	247	29AUG05A	24MAY07	19,875	03OCT05*	22NOV05	19	-299	Plan & Document - 183N												
AAF0751E	Loadout - 183N	24	05DEC06A	24MAY07	10,046	02FEB12	15MAR12	1,030	959	Loadout - 183N												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
AAF0751F	Transition/Final	16	29MAY07	25JUN07	11,264	19MAR12	17APR12	959	961	Transition/Final Closure - 183N												
AAF0752 D4 Building - 184N																						
AAF0752B	Deact & Decom	20	12JUN07*	17JUL07	1,015,530	28JUN07*	22JAN08	10	102	Deact & Decom - 184N												
AAF0752A	Plan &	188	03OCT05A	27AUG07	0	05SEP06*	11JAN07	184	-126	Plan & Document - 184N												
AAF0752C	Demolition	59	12JUN08*	25SEP08	166,862	23JAN08	12MAR08	-79	-110	Demolition Above Grade - 184N												
AAF0752D	Demolition	12	29SEP08	16OCT08	110,461	13MAR08	27MAY08	-110	-80	Demolition Below Grade - 184N												
AAF0752M	Complete	0		16OCT08	0		27MAY08	-80	-80	Complete Building 184N Demolition												
AAF0752E	Loadout - 184N	32	13OCT08	09DEC08	44,244	08APR08	16JUL08	-104	-80	Loadout - 184N												
AAF0752F	Transition/Final	16	10DEC08	12JAN09	38,216	17JUL08	30SEP08	-80	-54	Transition/Final Closure - 184N												
AAF0753 D4 Building - 184NA																						
AAF0753A	Plan &	70	14AUG06A	27AUG07	0	05SEP06	11JAN07	12	-126	Plan & Document - 184NA												
AAF0753B	Deact & Decom	12	28AUG08*	18SEP08	361,077	28JUN07*	22JAN08	-234	-134	Deact & Decom - 184NA												
AAF0753C	Demolition	12	22SEP08	09OCT08	45,853	23JAN08	12MAR08	-134	-118	Demolition Above Grade - 184NA												
AAF0753D	Demolition	12	13OCT08	30OCT08	10,945	13MAR08	27MAY08	-118	-88	Demolition Below Grade - 184NA												
AAF0753E	Loadout -	24	10NOV08	23DEC08	6,704	08APR08	16JUL08	-120	-88	Loadout - 184NA												
AAF0753F	Transition/Final	16	29DEC08	26JAN09	9,914	17JUL08	30SEP08	-88	-62	Transition/Final Closure - 184NA												
AAF0754 D4 Building - 184NB																						
AAF0754C	Demolition	28	26APR06A	27APR06A	30,760	23JAN08	12MAR08	347	373	Demolition Above Grade - 184NB												
AAF0754A	Plan &	70	17APR06A	03MAY06A	6,075	05SEP06	11JAN07	78	137	Plan & Document - 184NB												
AAF0754D	Demolition	42	01MAY06A	04MAY06A	6,357	13MAR08	27MAY08	373	411	Demolition Below Grade - 184NB												
AAF0754E	Loadout -	56	09MAY06A	17MAY06A	7,104	08APR08	16JUL08	382	432	Loadout - 184NB												
AAF0754B	Deact & Decom	1	22JUN06A	22JUN06A	146,960	28JUN07*	22JAN08	203	314	Deact & Decom - 184NB												
AAF0754F	Transition/Final	42	22MAY06A	20NOV07	3,739	17JUL08	30SEP08	431	171	Transition/Final Closure - 184NB												
AAF0755 D4 Building - 184NC																						
AAF0755A	Plan &	1	23JAN06A	09MAR06A	2,785	05SEP06	11JAN07	125	168	Plan & Document - 184NC												
AAF0755B	Deact & Decom	1	09MAR06A	09MAR06A	53,819	28JUN07*	22JAN08	262	373	Deact & Decom - 184NC												
AAF0755C	Demolition	1	09MAR06A	09MAR06A	18,174	23JAN08	12MAR08	374	401	Demolition Above Grade - 184NC												
AAF0755D	Demolition	2	06APR06A	13APR06A	0	13MAR08	27MAY08	386	423	Demolition Below Grade - 184NC												
AAF0755E	Loadout -	25	13MAR06A	20APR06A	5,746	08APR08	16JUL08	415	447	Loadout - 184NC												
AAF0755F	Transition/Final	1	22MAY06A	20NOV07	2,771	17JUL08	30SEP08	431	171	Transition/Final Closure - 184NC												
AAF0756 D4 Building - 186N																						
AAF0756B	Deact & Decom	4	12OCT11	18OCT11	46,621	11APR12	22MAY12	98	118	Deact & Decom - 186N												
AAF0756A	Plan &	50	03OCT11*	04JAN12	2,100	02APR12*	25APR12	98	63	Plan & Document - 186N												
AAF0756C	Demolition	4	05JAN12	11JAN12	15,763	23MAY12	04JUN12	78	80	Demolition Above Grade - 186N												
AAF0756D	Demolition	4	12JAN12	18JAN12	0	05JUN12	19JUN12	80	85	Demolition Below Grade - 186N												









Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16														
										Gantt chart area with activity bars and dates														
AAF0771E	Loadout -	4	27AUG12	30AUG12	0	08MAY12	17MAY12	-61	-58	Loadout - MO-427														
AAF0771F	Transition/Final	16	04SEP12	01OCT12	367	21MAY12	29MAY12	-58	-69	Transition/Final Closure - MO-427														
AAF0772 D4 Building - MO-740																								
AAF0772B	Deact & Decom	2	23JUL08	24JUL08	0	05APR12	30APR12	739	751	Deact & Decom - MO-740														
AAF0772A	Plan &	20	17JUL08*	20AUG08	102	02APR12	16APR12	739	728	Plan & Document - MO-740														
AAF0772C	Demolition	2	21AUG08	25AUG08	1,197	01MAY12	03MAY12	736	737	Demolition Above Grade - MO-740														
AAF0772D	Demolition	2	26AUG08	27AUG08	0	07MAY12	14MAY12	737	740	Demolition Below Grade - MO-740														
AAF0772E	Loadout -	4	27AUG08	03SEP08	0	08MAY12	17MAY12	737	740	Loadout - MO-740														
AAF0772F	Transition/Final	16	04SEP08	01OCT08	109	21MAY12	29MAY12	740	729	Transition/Final Closure - MO-740														
AAF0773 D4 Building - MO-827																								
AAF0773B	Deact & Decom	2	23JUL08	24JUL08	0	05APR12	30APR12	739	751	Deact & Decom - MO-827														
AAF0773A	Plan &	20	17JUL08	20AUG08	3,779	02APR12	16APR12	739	728	Plan & Document - MO-827														
AAF0773C	Demolition	2	21AUG08	25AUG08	17,043	01MAY12	03MAY12	736	737	Demolition Above Grade - MO-827														
AAF0773D	Demolition	2	26AUG08	27AUG08	0	07MAY12	14MAY12	737	740	Demolition Below Grade - MO-827														
AAF0773E	Loadout -	4	27AUG08	03SEP08	0	08MAY12	17MAY12	737	740	Loadout - MO-827														
AAF0773F	Transition/Final	16	04SEP08	01OCT08	1,558	21MAY12	29MAY12	740	729	Transition/Final Closure - MO-827														
AAF0774 D4 Building - MO-848																								
AAF0774B	Deact & Decom	2	23JUL08	24JUL08	0	05APR12	30APR12	739	751	Deact & Decom - MO-848														
AAF0774A	Plan &	20	17JUL08	20AUG08	227	02APR12	16APR12	739	728	Plan & Document - MO-848														
AAF0774C	Demolition	2	21AUG08	25AUG08	1,819	01MAY12	03MAY12	736	737	Demolition Above Grade - MO-848														
AAF0774D	Demolition	2	26AUG08	27AUG08	0	07MAY12	14MAY12	737	740	Demolition Below Grade - MO-848														
AAF0774E	Loadout -	4	27AUG08	03SEP08	0	08MAY12	17MAY12	737	740	Loadout - MO-848														
AAF0774F	Transition/Final	16	04SEP08	01OCT08	166	21MAY12	29MAY12	740	729	Transition/Final Closure - MO-848														
AAF0775 D4 Building - MO-900																								
AAF0775A	Plan &	9	03JUL06A	28SEP06A	1,997	02APR12	16APR12	1,147	1,106	Plan & Document - MO-900														
AAF0775B	Deact & Decom	14	05SEP06A	28SEP06A	0	05APR12	30APR12	1,115	1,114	Deact & Decom - MO-900														
AAF0775C	Demolition	3	11OCT06A	19OCT06A	10,033	01MAY12	03MAY12	1,108	1,105	Demolition Above Grade - MO-900														
AAF0775D	Demolition	5	19OCT06A	02NOV06A	0	07MAY12	14MAY12	1,106	1,102	Demolition Below Grade - MO-900														
AAF0775E	Loadout -	7	19OCT06A	02NOV06A	0	08MAY12	17MAY12	1,107	1,105	Loadout - MO-900														
AAF0775F	Transition/Final	16	01OCT07*	25OCT07	917	21MAY12	29MAY12	926	915	Transition/Final Closure - MO-900														
AAF0776 D4 Building - MO-911																								
AAF0776A	Plan &	20	29JAN07A	11APR07	4,053	02APR12	16APR12	1,034	1,001	Plan & Document - MO-911														
AAF0776B	Deact & Decom	2	02JUL07*	03JUL07	0	05APR12	30APR12	951	963	Deact & Decom - MO-911														
AAF0776C	Demolition	3	05JUL07	10JUL07	18,195	01MAY12	03MAY12	963	963	Demolition Above Grade - MO-911														
AAF0776D	Demolition	5	11JUL07	18JUL07	0	07MAY12	14MAY12	963	963	Demolition Below Grade - MO-911														





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year													
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
AAF0781E	Loadout -	4	27AUG08	03SEP08	0	08MAY12	17MAY12	737	740														
AAF0781F	Transition/Final	16	04SEP08	01OCT08	59	21MAY12	29MAY12	740	729														
<b>AAF0803 D4 Remaining Facilities - 105NE</b>																							
AAF0803A	Plan &	50	21AUG06A	31MAY07	1,782	03JUL06*	28SEP06	-27	-133														
AAF0803B	Deact & Decom	20	21JUL08*	21AUG08	79,735	01OCT07*	26FEB08	-160	-100														
AAF0803C	Demolition	12	23AUG10*	13SEP10	6,929	27FEB08	01APR08	-498	-490														
AAF0803D	Demolition	22	14SEP10	20OCT10	5,576	02APR08	22MAY08	-490	-482														
AAF0803E	Loadout -	34	28SEP10	29NOV10	2,435	21APR08	30JUN08	-488	-482														
AAF0803F	Transition/Final	16	30NOV10	29DEC10	1,310	01JUL08	21AUG08	-482	-468														
<b>AAF0804 D4 Remaining Facilities - 116N</b>																							
AAF0804B	Deact & Decom	80	25APR06A	18MAY06A	76,941	09OCT07	05MAR08	292	357														
AAF0804A	Plan &	50	03OCT05A	27AUG07	15,014	04SEP07*	03DEC07	383	53														
AAF0804C	Demolition	16	01OCT09*	28OCT09	204,151	06MAR08	09APR08	-316	-312														
AAF0804D	Demolition	14	29OCT09*	23NOV09	71,304	10APR08	03JUN08	-312	-296														
AAF0804E	Loadout - 116N	22	19NOV09	05JAN10	29,398	29APR08	09JUL08	-314	-296														
AAF0804F	Transition/Final	16	06JAN10	02FEB10	30,878	10JUL08	02SEP08	-296	-282														
<b>AAF0805 D4 Remaining Facilities - 1310N (See WS 116-N-2)</b>																							
AAF0805A	Plan &	50	15JUN06A	19APR07	79,800	03FEB09	30APR09	525	406														
AAF0805B	Deact & Decom	18	01OCT09*	02NOV09	532,596	11MAR09	30JUL09	-114	-52														
AAF0805C	Demolition	95	03NOV09	27APR10	29,685	03AUG09	03SEP09	-52	-127														
AAF0805D	Demolition	55	28APR10	04AUG10	40,466	08SEP09	28OCT09	-127	-152														
AAF0805E	Loadout -	83	14APR10	09SEP10	655,424	24SEP09	07DEC09	-109	-152														
AAF0805F	Transition/Final	16	13SEP10	07OCT10	68,131	08DEC09	02FEB10	-152	-138														
<b>AAF0806 D4 Remaining Facilities - 1524N</b>																							
AAF0806A	Plan &	50	03JUL06A	25JAN07A	24,595	03FEB09	30APR09	516	453														
AAF0806B	Deact & Decom	1	02JUL08*	02JUL08	22,733	11MAR09	30JUL09	136	215														
AAF0806C	Demolition	1	06JUL10*	06JUL10	36,221	03AUG09	03SEP09	-184	-165														
AAF0806D	Demolition	2	07JUL10	08JUL10	1,051	08SEP09	28OCT09	-165	-137														
AAF0806E	Loadout -	3	10AUG10	12AUG10	502	24SEP09	07DEC09	-174	-137														
AAF0806F	Transition/Final	16	16AUG10	13SEP10	13,170	08DEC09	02FEB10	-137	-123														
<b>AAF0807 D4 Remaining Facilities - 1525N</b>																							
AAF0807A	Plan &	67	03JUL06A	25JAN07A	32,998	01APR10*	29JUL10	748	702														
AAF0807B	Deact & Decom	29	08MAR07A	08MAR07A	20,490	19MAY10	29NOV10	640	745														
AAF0807C	Demolition	29	01OCT09*	19NOV09	2,709	30NOV10	19JAN11	231	229														
AAF0807D	Demolition	29	23NOV09	19JAN10	2,103	20JAN11	31MAR11	229	240														



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
AAF0812E	Loadout -	2	08JUL08	09JUL08	364	05MAR09	08APR09	131	149	Loadout - 1706NA												
AAF0812F	Transition/Final	16	10JUL08	06AUG08	1,688	09APR09	05MAY09	149	148	Transition/Final Closure - 1706NA												
AAF0813 D4 Remaining Facilities - 1715N																						
AAF0813A	Plan &	25	28NOV05A	21DEC05A	78,593	08JUN10*	02SEP10	904	939	Plan & Document - 1715N												
AAF0813B	Deact & Decom	4	27DEC05A	23JAN06A	163,900	14JUL10	06DEC10	909	974	Deact & Decom - 1715N												
AAF0813C	Demolition	4	19JAN06A	26JAN06A	238,864	07DEC10	13JAN11	976	991	Demolition Above Grade - 1715N												
AAF0813D	Demolition	30	08FEB06A	14FEB06A	8,216	17JAN11	09MAR11	985	1,011	Demolition Below Grade - 1715N												
AAF0813E	Loadout -	4	21FEB06A	09MAR06A	27,954	02FEB11	13APR11	989	1,018	Loadout - 1715N												
AAF0813F	Transition/Final	4	07MAR06A	23MAR06A	145,169	14APR11	07JUN11	1,021	1,040	Transition/Final Closure - 1715N												
AAF0814 D4 Remaining Facilities - 1723NX																						
AAF0814A	Plan &	1	13MAR06A	18MAY06A	172,591	01JUN11	29AUG11	1,044	1,054	Plan & Document - 1723NX												
AAF0814B	Deact & Decom	1	31MAY06A	06JUN06A	105,418	07JUL11	29NOV11	1,019	1,095	Deact & Decom - 1723NX												
AAF0814C	Demolition	1	01JUN06A	08JUN06A	0	30NOV11	09JAN12	1,098	1,113	Demolition Above Grade - 1723NX												
AAF0814D	Demolition	1	08JUN06A	08JUN06A	50,130	10JAN12	01MAR12	1,114	1,143	Demolition Below Grade - 1723NX												
AAF0814E	Loadout -	1	01JUN06A	08JUN06A	41,477	26JAN12	05APR12	1,128	1,163	Loadout - 1723NX												
AAF0814F	Transition/Final	1	03JUL06A	07SEP06A	79,388	09APR12	30MAY12	1,151	1,143	Transition/Final Closure - 1723NX												
AAF0815 D4 Remaining Facilities - 1802N																						
AAF0815A	Plan &	59	28SEP05A	17JAN06A	79,300	29AUG05	05DEC05	-17	-22	Plan & Document - 1802N												
AAF0815C	Demolition	56	06FEB06A	30SEP06A	142,074	20MAR06	25APR06	23	-87	Demolition Above Grade - 1802N												
AAF0815B	Deact & Decom	87	26MAR07	27AUG07	0	06OCT05	16MAR06	-290	-290	Deact & Decom - 1802N												
AAF0815D	Demolition	16	06NOV08	08DEC08	198,951	26APR06	22JUN06	-508	-491	Demolition Below Grade - 1802N												
AAF0815F	Transition/Final	16	09DEC08	08JAN09	33,972	03AUG06	02OCT06	-469	-452	Transition/Final Closure - 1802N												
AAF0815E	Loadout -	43	29OCT08	20JAN09	0	17MAY06	02AUG06	-491	-491	Loadout - 1802N												
AAF0816 D4 Remaining Facilities - 181NA																						
AAF0816A	Plan &	20	30APR12*	04JUN12	1,661	01JUN11	29AUG11	-182	-152	Plan & Document - 181NA												
AAF0816B	Deact & Decom	2	05JUN12	06JUN12	52,972	07JUL11	29NOV11	-182	-104	Deact & Decom - 181NA												
AAF0816C	Demolition	2	07JUN12	11JUN12	30,503	30NOV11	09JAN12	-104	-86	Demolition Above Grade - 181NA												
AAF0816D	Demolition	2	12JUN12	13JUN12	4,469	10JAN12	01MAR12	-86	-58	Demolition Below Grade - 181NA												
AAF0816E	Loadout -	4	16JUL12	19JUL12	8,691	26JAN12	05APR12	-94	-58	Loadout - 181NA												
AAF0816F	Transition/Final	16	23JUL12	16AUG12	2,479	09APR12	30MAY12	-58	-44	Transition/Final Closure - 181NA												
AAF0817 D4 Remaining Facilities - 181NB																						
AAF0817A	Plan &	20	04OCT11*	07NOV11	1,780	01JUN11	29AUG11	-69	-39	Plan & Document - 181NB												
AAF0817B	Deact & Decom	2	08NOV11	09NOV11	41,089	07JUL11	29NOV11	-69	9	Deact & Decom - 181NB												
AAF0817C	Demolition	4	10NOV11	16NOV11	13,908	30NOV11	09JAN12	9	25	Demolition Above Grade - 181NB												
AAF0817D	Demolition	4	17NOV11	28NOV11	0	10JAN12	01MAR12	25	51	Demolition Below Grade - 181NB												









Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt chart area with activity bars and milestones												
AAF1001E	Loadout -	25	05MAR07A	26APR07	141,694	24SEP09	07DEC09	514	522	■ Loadout - 1312N												
AAF1001F	Transition/Final	16	30APR07	24MAY07	270,112	08DEC09	02FEB10	522	536	■ Transition/Final Closure - 1312N												
AAF1002 D4 Retention Basin - 1904N																						
AAF1002A	Plan &	20	30NOV11	09JAN12	16,685	01JUN11	29AUG11	-100	-70	■ Plan & Document - 1904N												
AAF1002B	Deact & Decom	2	10JAN12	11JAN12	0	07JUL11	29NOV11	-100	-22	■ Deact & Decom - 1904N												
AAF1002C	Demolition	2	12JAN12	16JAN12	0	30NOV11	09JAN12	-22	-4	■ Demolition Above Grade - 1904N												
AAF1002D	Demolition	2	17JAN12	18JAN12	51,097	10JAN12	01MAR12	-4	24	■ Demolition Below Grade - 1904N												
AAF1002E	Loadout -	4	16FEB12	23FEB12	7,881	26JAN12	05APR12	-12	24	■ Loadout - 1904N												
AAF1002F	Transition/Final	16	27FEB12	22MAR12	15,023	09APR12	30MAY12	24	38	■ Transition/Final Closure - 1904N												
AAF1003 D4 Retention Basin - 1909N																						
AAF1003A	Plan &	20	10JAN12	13FEB12	8,330	01JUN11	29AUG11	-120	-90	■ Plan & Document - 1909N												
AAF1003B	Deact & Decom	2	14FEB12	15FEB12	27,711	07JUL11	29NOV11	-120	-42	■ Deact & Decom - 1909N												
AAF1003C	Demolition	2	16FEB12	21FEB12	55,593	30NOV11	09JAN12	-42	-24	■ Demolition Above Grade - 1909N												
AAF1003D	Demolition	2	22FEB12	23FEB12	7,133	10JAN12	01MAR12	-24	4	■ Demolition Below Grade - 1909N												
AAF1003E	Loadout -	4	26MAR12	29MAR12	4,101	26JAN12	05APR12	-32	4	■ Loadout - 1909N												
AAF1003F	Transition/Final	16	02APR12	26APR12	23,017	09APR12	30MAY12	4	18	■ Transition/Final Closure - 1909N												
<b>RA Field Remediation</b>																						
CFA0301 Confirmatory Sampling Site - 100 N -Misc Piping																						
CFA0301A	Work	74	23JAN08*	03JUN08	83,455	01JUL08*	03NOV08	89	85	■ Work Instructions - CS Site - 100 N - Misc. Pip												
CFA0301B	Smpg and	45	25MAR08	11JUN08	240,304	11NOV08	08JAN09	129	114	■ Smpg and Analysis - CS Site - 100 N - Misc. Pip												
CFA0301C	RSVP or RTD	93	12JUN08	25NOV08	101,351	08DEC08	07DEC09	97	204	■ RSVP or RTD Report - CS Site - 100 N - Misc. Pip												
CFA0302 Confirmatory Sampling Site - 100-N-28																						
CFA0302A	Work	57	01OCT07*	15JAN08	15,669	16JUL08	13OCT08	158	151	■ Work Instructions - CS Site - 100-N-28												
CFA0302B	Smpg and	25	16JAN08	28FEB08	17,268	13NOV08	05JAN09	169	169	■ Smpg and Analysis - CS Site - 100-N-28												
CFA0302C	RSVP or RTD	93	03MAR08	13AUG08	10,137	10DEC08	12MAY09	157	148	■ RSVP or RTD Report - CS Site - 100-N-28												
CFA0303 Confirmatory Sampling Site - 100-N-53																						
CFA0303A	Work	57	15OCT07	29JAN08	15,669	30JUL08	27OCT08	158	151	■ Work Instructions - CS Site - 100-N-53												
CFA0303B	Smpg and	25	21JAN08	04MAR08	17,268	18NOV08	07JAN09	169	169	■ Smpg and Analysis - CS Site - 100-N-53												
CFA0303C	RSVP or RTD	93	05MAR08	18AUG08	10,137	15DEC08	14MAY09	157	148	■ RSVP or RTD Report - CS Site - 100-N-53												
CFA0304 Confirmatory Sampling Site - 100-N-54																						
CFA0304A	Work	50	03JAN06A	30MAR06A	15,669	13AUG08	10NOV08	524	524	■ Work Instructions - CS Site - 100-N-54												
CFA0304B	Smpg and	25	30MAR06A	30MAR06A	17,268	20NOV08	12JAN09	531	555	■ Smpg and Analysis - CS Site - 100-N-54												
CFA0304C	RSVP or RTD	84	10APR06A	30MAY06A	10,137	17DEC08	19MAY09	539	594	■ RSVP or RTD Report - CS Site - 100-N-54												
CFA0305 Confirmatory Sampling Site - 100-N-55																						
CFA0305A	Work	57	15OCT07*	29JAN08	15,669	01JUL08*	29SEP08	142	135	■ Work Instructions - CS Site - 100-N-55												



























Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
CFB0560E	Revegetation -	1	08SEP11	08SEP11	24	12DEC11	12DEC11	51	51	Revegetation - Rem Wst Site - UPR-100-N-25												
CFB0561 Remediate Waste Site - UPR-100-N-26																						
CFB0561A	Excavation	5	20AUG08	27AUG08	2,310	09DEC08	16DEC08	60	60	Excavation Process - Rem Wst Site - UPR-100-N-26												
CFB0561B	Loadout - Rem	5	18SEP08	25SEP08	724	12JAN09	19JAN09	60	60	Loadout - Rem Wst Site - UPR-100-N-26												
CFB0561D	Closeout Smplg	159	29SEP08	15JUL09	1,316	20JAN09	29OCT09	60	60	Closeout Smplg - Rem Wst Site - UPR-100-N-26												
CFB0561C	Backfill - Rem	2	16JUL09	20JUL09	644	11JAN12	12JAN12	495	495	Backfill - Rem Wst Site - UPR-100-N-26												
CFB0561E	Revegetation -	1	21JUL09	21JUL09	31	13AUG12	13AUG12	612	612	Revegetation - Rem Wst Site - UPR-100-N-26												
CFB0562 Remediate Waste Site - UPR-100-N-29																						
CFB0562A	Excavation	7	01NOV10	10NOV10	0	25FEB10	09MAR10	-138	-138	Excavation Process - Rem Wst Site - UPR-100-N-29												
CFB0562B	Loadout - Rem	7	01DEC10	13DEC10	0	25MAR10	06APR10	-138	-138	Loadout - Rem Wst Site - UPR-100-N-29												
CFB0562D	Closeout Smplg	159	14DEC10	28SEP11	0	07APR10	24JAN11	-138	-138	Closeout Smplg - Rem Wst Site - UPR-100-N-29												
CFB0562C	Backfill - Rem	3	04JAN12	09JAN12	0	16JAN12	18JAN12	6	6	Backfill - Rem Wst Site - UPR-100-N-29												
CFB0562E	Revegetation -	1	10JAN12	10JAN12	0	19JAN12	19JAN12	6	6	Revegetation - Rem Wst Site - UPR-100-N-29												
CFB0563 Remediate Waste Site - UPR-100-N-3																						
CFB0563A	Excavation	7	08SEP08	17SEP08	0	19FEB09	03MAR09	89	89	Excavation Process - Rem Wst Site - UPR-100-N-3												
CFB0563B	Loadout - Rem	7	06OCT08	15OCT08	0	19MAR09	31MAR09	89	89	Loadout - Rem Wst Site - UPR-100-N-3												
CFB0563D	Closeout Smplg	159	16OCT08	04AUG09	0	01APR09	18JAN10	89	89	Closeout Smplg - Rem Wst Site - UPR-100-N-3												
CFB0563E	Revegetation -	1	09NOV09	09NOV09	0	28JUN12	28JUN12	526	526	Revegetation - Rem Wst Site - UPR-100-N-3												
CFB0563C	Backfill - Rem	3	05NOV09	10NOV09	0	06MAY10	11MAY10	98	98	Backfill - Rem Wst Site - UPR-100-N-3												
CFB0564 Remediate Waste Site - UPR-100-N-30																						
CFB0564A	Excavation	1	02JUL08	02JUL08	0	15JUL08	24JUL08	6	12	Excavation Process - Rem Wst Site - UPR-100-N-30												
CFB0564B	Loadout - Rem	7	31JUL08	12AUG08	0	12AUG08	21AUG08	6	6	Loadout - Rem Wst Site - UPR-100-N-30												
CFB0564D	Closeout Smplg	159	13AUG08	01JUN09	0	25AUG08	10JUN09	6	6	Closeout Smplg - Rem Wst Site - UPR-100-N-30												
CFB0564C	Backfill - Rem	3	02JUN09	04JUN09	0	21NOV11	28NOV11	495	495	Backfill - Rem Wst Site - UPR-100-N-30												
CFB0564E	Revegetation -	1	08JUN09	08JUN09	0	06JUL11	06JUL11	415	415	Revegetation - Rem Wst Site - UPR-100-N-30												
CFB0565 Remediate Waste Site - UPR-100-N-31(with 116-N-1)																						
CFB0565A	Excavation	1	16JUL08	16JUL08	0	09SEP08	29DEC08	30	89	Excavation Process - Rem Wst Site - UPR-100-N-31												
CFB0565B	Loadout - Rem	60	13AUG08	01DEC08	0	07OCT08	27JAN09	30	30	Loadout - Rem Wst Site - UPR-100-N-31												
CFB0565D	Closeout Smplg	159	02DEC08	16SEP09	0	28JAN09	09NOV09	30	30	Closeout Smplg - Rem Wst Site - UPR-100-N-31												
CFB0565C	Backfill - Rem	21	17SEP09	22OCT09	0	18MAR10	22APR10	98	98	Backfill - Rem Wst Site - UPR-100-N-31												
CFB0565E	Revegetation -	4	26OCT09	29OCT09	0	14JUN12	20JUN12	526	526	Revegetation - Rem Wst Site - UPR-100-N-31												
CFB0566 Remediate Waste Site - UPR-100-N-32																						
CFB0566A	Excavation	7	28JUL08	06AUG08	0	08JAN09	20JAN09	89	89	Excavation Process - Rem Wst Site - UPR-100-N-32												
CFB0566B	Loadout - Rem	7	25AUG08	04SEP08	0	05FEB09	18FEB09	89	89	Loadout - Rem Wst Site - UPR-100-N-32												
CFB0566D	Closeout Smplg	159	08SEP08	23JUN09	0	19FEB09	02DEC09	89	89	Closeout Smplg - Rem Wst Site - UPR-100-N-32												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
CFB0573D	Closeout Smpg	159	01DEC10	15SEP11	16,324	25MAR10	11JAN11	-138	-138	Closeout Smpg - Rem Wst Site - UPR-100-N-5												
CFB0573C	Backfill - Rem	3	19SEP11	21SEP11	7,986	12DEC11	14DEC11	46	46	Backfill - Rem Wst Site - UPR-100-N-5												
CFB0573E	Revegetation -	1	22SEP11	22SEP11	388	15DEC11	15DEC11	46	46	Revegetation - Rem Wst Site - UPR-100-N-5												
CFB0574 Remediate Waste Site - UPR-100-N-6																						
CFB0574A	Excavation	1	08JUL08	08JUL08	5,431	29JUL08	05AUG08	12	16	Excavation Process - Rem Wst Site - UPR-100-N-6												
CFB0574B	Loadout - Rem	5	05AUG08	12AUG08	1,703	26AUG08	03SEP08	12	12	Loadout - Rem Wst Site - UPR-100-N-6												
CFB0574D	Closeout Smpg	159	13AUG08	01JUN09	3,094	04SEP08	22JUN09	12	12	Closeout Smpg - Rem Wst Site - UPR-100-N-6												
CFB0574C	Backfill - Rem	2	02JUN09	03JUN09	1,514	07MAR12	08MAR12	551	551	Backfill - Rem Wst Site - UPR-100-N-6												
CFB0574E	Revegetation -	1	04JUN09	04JUN09	74	12JUN12	12JUN12	603	603	Revegetation - Rem Wst Site - UPR-100-N-6												
CFB0575 Remediate Waste Site - UPR-100-N-7																						
CFB0575A	Excavation	13	14FEB11	08MAR11	85,862	03JUN10	24JUN10	-138	-138	Excavation Process - Rem Wst Site - UPR-100-N-7												
CFB0575B	Loadout - Rem	13	15MAR11	05APR11	26,921	01JUL10	26JUL10	-138	-138	Loadout - Rem Wst Site - UPR-100-N-7												
CFB0575D	Closeout Smpg	159	06APR11	23JAN12	48,914	27JUL10	11MAY11	-138	-138	Closeout Smpg - Rem Wst Site - UPR-100-N-7												
CFB0575E	Revegetation -	1	25JAN12	25JAN12	1,162	27MAR12	27MAR12	34	34	Revegetation - Rem Wst Site - UPR-100-N-7												
CFB0575C	Backfill - Rem	5	23FEB12	01MAR12	23,928	02APR12	09APR12	21	21	Backfill - Rem Wst Site - UPR-100-N-7												
CFB0576 Remediate Waste Site - UPR-100-N-8																						
CFB0576A	Excavation	1	09JUL08	09JUL08	916	06AUG08	13AUG08	16	20	Excavation Process - Rem Wst Site - UPR-100-N-8												
CFB0576B	Loadout - Rem	5	06AUG08	13AUG08	287	04SEP08	11SEP08	16	16	Loadout - Rem Wst Site - UPR-100-N-8												
CFB0576D	Closeout Smpg	159	14AUG08	02JUN09	522	15SEP08	30JUN09	16	16	Closeout Smpg - Rem Wst Site - UPR-100-N-8												
CFB0576C	Backfill - Rem	2	03JUN09	04JUN09	255	12MAR12	13MAR12	552	552	Backfill - Rem Wst Site - UPR-100-N-8												
CFB0576E	Revegetation -	1	08JUN09	08JUN09	12	13JUN12	13JUN12	603	603	Revegetation - Rem Wst Site - UPR-100-N-8												
CFB0577 Remediate Waste Site - UPR-100-N-9																						
CFB0577A	Excavation	5	02JUL08	10JUL08	3,163	27JAN09	03FEB09	112	112	Excavation Process - Rem Wst Site - UPR-100-N-9												
CFB0577B	Loadout - Rem	5	31JUL08	07AUG08	992	25FEB09	04MAR09	112	112	Loadout - Rem Wst Site - UPR-100-N-9												
CFB0577D	Closeout Smpg	159	11AUG08	27MAY09	1,802	05MAR09	16DEC09	112	112	Closeout Smpg - Rem Wst Site - UPR-100-N-9												
CFB0577C	Backfill - Rem	2	29JUL09	30JUL09	881	24JAN12	25JAN12	495	495	Backfill - Rem Wst Site - UPR-100-N-9												
CFB0577E	Revegetation -	1	03AUG09	03AUG09	43	16AUG12	16AUG12	608	608	Revegetation - Rem Wst Site - UPR-100-N-9												
CFB0578 Remediate Waste Site - 100-N-63																						
CFB0578A	Excavation	44	01OCT08*	18DEC08	293,634	01SEP10*	17NOV10	383	383	Excavation Process - Rem Wst Site - 100-N-63												
CFB0578B	Loadout - Rem	48	29OCT08	28JAN09	40,183	30SEP10	29DEC10	383	383	Loadout - Rem Wst Site - 100-N-63												
CFB0578D	Closeout Smpg	160	29JAN09	11NOV09	119,440	03JAN11	12OCT11	383	382	Closeout Smpg - Rem Wst Site - 100-N-63												
CFB0578C	Backfill - Rem	24	12NOV09	30DEC09	207,411	13OCT11	28NOV11	382	382	Backfill - Rem Wst Site - 100-N-63												
CFB0578E	Revegetation -	6	04JAN10	12JAN10	0	02JUL12	11JUL12	500	500	Revegetation - Rem Wst Site - 100-N-63												
CFB0579 Remediate Waste Site - 100-N-80																						
CFB0579A	Excavation	1	08JUL08	08JUL08	0	30JUL08	22OCT08	13	60	Excavation Process - Rem Wst Site - 100-N-80												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
CFB0579B	Loadout - Rem	48	05AUG08	28OCT08	0	27AUG08	19NOV08	13	13													
CFB0579D	Closeout Smpg	159	29OCT08	17AUG09	0	20NOV08	09SEP09	13	13													
CFB0579C	Backfill - Rem	24	18AUG09	29SEP09	0	01NOV11	14DEC11	441	441													
CFB0579E	Revegetation -	6	30SEP09	08OCT09	0	24JUL12	01AUG12	561	561													
<b>IS ISS</b>																						
<b>BDA21 Iss-Interim Safe Storage</b>																						
0041.99938	TPA M-93-19	0		07SEP06A	0		30SEP09*	612	612													
<b>BDA2101 Interim Safe Storage - 105-N REACTOR (ISS)</b>																						
BDA2101A	Plan &	219	29AUG05A	13DEC07	2,287,586	03JUL06*	21MAR07	168	-148													
BDA2101B	Deact & Decom	418	21SEP06A	30SEP08	3,849,756	02OCT06	30OCT08	5	18													
BDA2101G	SSE - ISS -	152	28FEB11*	28NOV11	4,227,731	03JAN11	29SEP11	-31	-31													
BDA2101H	Closeout/Transit	48	29NOV11	27FEB12	837,366	03OCT11	29DEC11	-31	-31													
<b>BDA2102 D4 Building - 109N</b>																						
BDA2102A	Plan &	216	15AUG06A	30SEP08	532,841	03APR06*	30APR07	-75	-285													
BDA2102B	Deact & Decom	162	22JAN07A	30SEP09	8,696,663	02OCT06*	30SEP09	-59	0													
BDA2102C	Demolition	174	15DEC08*	26OCT09	5,676,332	28JUN07	23SEP10	-292	182													
BDA2102D	Demolition	129	10MAR09	26OCT09	3,168,381	28JUN07	23SEP10	-337	182													
BDA2102E2	SSE - 109N	152	28FEB11*	28NOV11	2,000,000	03JAN11	29SEP11	-31	-31													
<b>BDA2103 D4 Building - 1605NE</b>																						
BDA2103A	Plan &	7	19MAY09*	01JUN09	285	05JUL11*	26JUL11	424	430													
BDA2103B	Deact & Decom	7	27MAY09	08JUN09	3,481	12JUL11	15AUG11	424	437													
BDA2103C	Demolition	5	09JUN09	16JUN09	3,153	16AUG11	23AUG11	437	437													
BDA2103D	Demolition	8	17JUN09	30JUN09	0	24AUG11	07SEP11	437	437													
BDA2103E	Loadout -	10	23JUN09	09JUL09	997	30AUG11	15SEP11	437	437													
BDA2103F	Transition/Final	8	13JUL09	23JUL09	481	19SEP11	29SEP11	437	437													
<b>BDA2104 D4 Building - 1722N</b>																						
BDA2104A	Plan &	44	16JAN06A	27MAR06A	5,636	05SEP06*	09OCT06	129	109													
BDA2104B	Deact & Decom	23	05MAY09*	15JUN09	99,654	19SEP06	13NOV06	-524	-515													
BDA2104C	Demolition	8	16JUN09	29JUN09	28,639	14NOV06	29NOV06	-515	-515													
BDA2104D	Demolition	12	30JUN09	21JUL09	5,982	30NOV06	20DEC06	-515	-515													
BDA2104E	Loadout -	16	08JUL09	04AUG09	6,603	07DEC06	09JAN07	-515	-515													
BDA2104F	Transition/Final	12	05AUG09	25AUG09	3,548	10JAN07	30JAN07	-515	-515													
<b>BDA2105 D4 Building - 105NA</b>																						
BDA2105A	Plan &	25	08NOV05A	11APR07	1,270	10NOV10	29DEC10	1,000	742													
BDA2105B	Deact & Decom	7	02JUN09*	11JUN09	46,912	01DEC10	10FEB11	300	332													



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
BDA2105C	Demolition	10	15JUN09	30JUN09	6,364	14FEB11	02MAR11	332	332	Demolition Above Grade - 105NA												
BDA2105D	Demolition	15	01JUL09	28JUL09	1,356	03MAR11	29MAR11	332	332	Demolition Below Grade - 105NA												
BDA2105E	Loadout -	20	13JUL09	13AUG09	1,458	14MAR11	14APR11	332	332	Loadout - 105NA												
BDA2105F	Transition/Final	15	17AUG09	10SEP09	829	18APR11	11MAY11	332	332	Transition/Final Closure - 105NA												
<b>BDA2106 D4 Remaining Facilities - 105ND</b>																						
BDA2106A	Plan &	12	05MAR07A	05MAR07A	18	03DEC07*	20DEC07	151	162	Plan & Document - 105ND												
BDA2106B	Deact & Decom	19	06MAR07A	06MAR07A	2,409	11DEC07	16JAN08	155	173	Deact & Decom - 105ND												
BDA2106C	Demolition	10	23AUG07*	11SEP07	4,801	17JAN08	24JAN08	78	73	Demolition Above Grade - 105ND												
BDA2106D	Demolition	10	12SEP07	27SEP07	11	28JAN08	06FEB08	73	70	Demolition Below Grade - 105ND												
BDA2106E	Loadout -	5	01OCT07	08OCT07	1,759	30JAN08	14FEB08	65	70	Loadout - 105ND												
BDA2106F	Transition/Final	6	09OCT07	17OCT07	467	19FEB08	28FEB08	70	71	Transition/Final Closure - 105ND												
<b>100 AREA</b>																						
<b>DE Remedial Design</b>																						
CGD0101 Fl. Rem. - 100 Area Burial Design																						
CGD0101A	Design - 100	417	03OCT05A	27SEP07	172,621	29AUG05	27SEP07	-19	0	Design - 100 Area Burial Design												
CGD0102 Fl. Rem. - 100-IU-2 Remedial Action Design																						
CGD0102A	Design -	98	26MAR07*	17SEP07	0	02OCT06*	29MAR07	-94	-94	Design - 100-IU-2 Remedial Action Design												
CGD0103 Fl. Rem. - 100-IU-6 Remedial Action Design																						
CGD0103A	Design -	98	30JAN06A	27SEP07	36,982	02OCT06*	29MAR07	136	-101	Design - 100-IU-6 Remedial Action Design												
<b>DD D4</b>																						
AAR2501 D4-Non-Site Specific Support 100 Area																						
AAR2501A1	D4-100 Area	19	29AUG05A	01SEP05A	399,929	29AUG05	29SEP05	0	15	D4-100 Area Non-Site Specific Support FY05												
ASA2901 D4-Management and Support																						
ASA2901A9	D4-Management	200	01OCT12	30SEP13	7,398,181	01OCT12	30APR13	0	-84	D4-Management and Support FY11												
ASA2901AA	D4-Management	9	01OCT13	15OCT13	322,742			0	0	D4-Management and Support FY14												
<b>RA Field Remediation</b>																						
CGB0501 Remediate Waste Site - 600-176																						
CGB0501A	Excavation	5	26JUL11	02AUG11	1,297	25OCT06	01NOV06	-947	-947	Excavation Process - Rem Wst Site - 600-176												
CGB0501B	Loadout - Rem	5	23AUG11	30AUG11	141	27NOV06	04DEC06	-947	-947	Loadout - Rem Wst Site - 600-176												
CGB0501C	Backfill - Rem	2	31AUG11	01SEP11	341	05DEC06	06DEC06	-947	-947	Backfill - Rem Wst Site - 600-176												
CGB0501D	Closeout Smply	159	06SEP11	20JUN12	106	07DEC06	24SEP07	-947	-947	Closeout Smply - Rem Wst Site - 600-176												
CGB0501E	Revegetation -	1	21JUN12	21JUN12	74	25SEP07	25SEP07	-947	-947	Revegetation - Rem Wst Site - 600-176												
CGB0502 Remediate Waste Site - 600-182																						
CGB0502A	Excavation	5	05JUL11*	12JUL11	160	03OCT07	10OCT07	-748	-748	Excavation Process - Rem Wst Site - 600-182												
CGB0502B	Loadout - Rem	5	02AUG11	09AUG11	17	31OCT07	07NOV07	-748	-748	Loadout - Rem Wst Site - 600-182												
CGB0502C	Backfill - Rem	2	10AUG11	11AUG11	42	08NOV07	12NOV07	-748	-748	Backfill - Rem Wst Site - 600-182												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
CGB0502D	Closeout Smpg	159	15AUG11	30MAY12	13	13NOV07	28AUG08	-748	-748	Closeout Smpg - Rem Wst Site - 600-182												
CGB0502E	Revegetation -	1	31MAY12	31MAY12	9	02SEP08	02SEP08	-748	-748	Revegetation - Rem Wst Site - 600-182												
CGC05 Fld. Rem.-Waste Sites.-100-IU-6																						
0041.99919	TPA M-16-56	0		31DEC12*	0		31DEC08*	-798	-798	TPA M-16-56 Comp RA 100 IU2 and IU3												
CGC0501 Remediate Waste Site - 600-108 (incl 600-257)																						
CGC0501A	Excavation	12	05JUL11*	25JUL11	42,788	02OCT06*	19OCT06	-949	-949	Excavation Process - Rem Wst Site - 600-108 (incl 600-257)												
CGC0501B	Loadout - Rem	12	02AUG11	22AUG11	6,827	30OCT06	16NOV06	-949	-949	Loadout - Rem Wst Site - 600-108 (includes 600-257)												
CGC0501D	Closeout Smpg	159	23AUG11	07JUN12	32,366	20NOV06	06SEP07	-949	-949	Closeout Smpg - Rem Wst Site - 600-108 (includes 600-257)												
CGC0501C	Backfill - Rem	4	11JUN12	14JUN12	6,317	10SEP07	13SEP07	-949	-949	Backfill - Rem Wst Site - 600-108 (600-257)												
CGC0501E	Revegetation -	1	18JUN12	18JUN12	983	17SEP07	17SEP07	-949	-949	Revegetation - Rem Wst Site - 600-108 (includes 600-257)												
CGC0502 Remediate Waste Site - 600-149																						
CGC0502A	Excavation	7	01OCT07*	10OCT07	27,001	17OCT06	26OCT06	-190	-190	Excavation Process - Rem Wst Site - 600-149												
CGC0502B	Loadout - Rem	7	29OCT07	07NOV07	2,933	14NOV06	28NOV06	-190	-190	Loadout - Rem Wst Site - 600-149												
CGC0502D	Closeout Smpg	159	08NOV07	26AUG08	2,198	29NOV06	13SEP07	-190	-190	Closeout Smpg - Rem Wst Site - 600-149												
CGC0502C	Backfill - Rem	3	27AUG08	02SEP08	7,106	17SEP07	19SEP07	-190	-190	Backfill - Rem Wst Site - 600-149												
CGC0502E	Revegetation -	1	03SEP08	03SEP08	1,538	20SEP07	20SEP07	-190	-190	Revegetation - Rem Wst Site - 600-149												
CGC0503 Remediate Waste Site - 600-178																						
CGC0503A	Excavation	3	01AUG11	03AUG11	1,057,019	01OCT07*	03OCT07	-765	-765	Excavation Process - Rem Wst Site - 600-178												
CGC0503B	Loadout - Rem	3	29AUG11	31AUG11	0	29OCT07	31OCT07	-765	-765	Loadout - Rem Wst Site - 600-178												
CGC0503D	Closeout Smpg	159	01SEP11	19JUN12	11,181	01NOV07	19AUG08	-765	-765	Closeout Smpg - Rem Wst Site - 600-178												
CGC0503C	Backfill - Rem	1	20JUN12	20JUN12	0	20AUG08	20AUG08	-765	-765	Backfill - Rem Wst Site - 600-178												
CGC0503E	Revegetation -	1	21JUN12	21JUN12	0	21AUG08	21AUG08	-765	-765	Revegetation - Rem Wst Site - 600-178												
CGC0504 Remediate Waste Site - 600-186																						
CGC0504A	Excavation	4	01AUG11	04AUG11	0	09OCT07	15OCT07	-760	-760	Excavation Process - Rem Wst Site - 600-186												
CGC0504B	Loadout - Rem	4	29AUG11	01SEP11	0	06NOV07	12NOV07	-760	-760	Loadout - Rem Wst Site - 600-186												
CGC0504D	Closeout Smpg	159	06SEP11	20JUN12	16,231	13NOV07	28AUG08	-760	-760	Closeout Smpg - Rem Wst Site - 600-186												
CGC0504C	Backfill - Rem	1	21JUN12	21JUN12	0	02SEP08	02SEP08	-760	-760	Backfill - Rem Wst Site - 600-186												
CGC0504E	Revegetation -	1	25JUN12	25JUN12	0	03SEP08	03SEP08	-760	-760	Revegetation - Rem Wst Site - 600-186												
CGC0505 Remediate Waste Site - 600-213																						
CGC0505A	Excavation	5	03AUG11	10AUG11	7,458	11OCT07	18OCT07	-760	-760	Excavation Process - Rem Wst Site - 600-213												
CGC0505B	Loadout - Rem	5	31AUG11	08SEP11	1,268	08NOV07	15NOV07	-760	-760	Loadout - Rem Wst Site - 600-213												
CGC0505D	Closeout Smpg	159	12SEP11	26JUN12	6,671	19NOV07	04SEP08	-760	-760	Closeout Smpg - Rem Wst Site - 600-213												
CGC0505C	Backfill - Rem	2	27JUN12	28JUN12	925	08SEP08	09SEP08	-760	-760	Backfill - Rem Wst Site - 600-213												
CGC0505E	Revegetation -	1	02JUL12	02JUL12	120	10SEP08	10SEP08	-760	-760	Revegetation - Rem Wst Site - 600-213												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year																
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16					
<b>CGC0506 Remediate Waste Site - 600-3</b>																										
CGC0506A	Excavation	96	01NOV10*	26APR11	175,806	15MAR07*	04SEP07	-727	-727	Excavation Process - Rem Wst Site - 600-3																
CGC0506B	Loadout - Rem	96	01DEC10	24MAY11	127,282	12APR07	02OCT07	-727	-727	Loadout - Rem Wst Site - 600-3																
CGC0506D	Closeout Smpg	159	25MAY11	13MAR12	86,038	03OCT07	21JUL08	-727	-727	Closeout Smpg - Rem Wst Site - 600-3																
CGC0506C	Backfill - Rem	34	14MAR12	10MAY12	278,171	22JUL08	18SEP08	-727	-727	Backfill - Rem Wst Site - 600-3																
CGC0506E	Revegetation -	7	14MAY12	23MAY12	60,198	22SEP08	01OCT08	-727	-727	Revegetation - Rem Wst Site - 600-3																
<b>CGC0507 Remediate Waste Site - 600-239</b>																										
CGC0507A	Excavation	48	22SEP11*	19DEC11	0	05MAY08*	29JUL08	-677	-677	Excavation Process - Rem Wst Site - 600-239																
CGC0507B	Loadout - Rem	48	20OCT11	19JAN12	0	03JUN08	26AUG08	-677	-677	Loadout - Rem Wst Site - 600-239																
CGC0507C	Backfill - Rem	24	23JAN12	05MAR12	0	27AUG08	08OCT08	-677	-677	Backfill - Rem Wst Site - 600-239																
CGC0507D	Closeout Smpg	18	06MAR12	04APR12	0	09OCT08	10NOV08	-677	-677	Closeout Smpg - Rem Wst Site - 600-239																
CGC0507E	Revegetation -	6	05APR12	16APR12	0	11NOV08	19NOV08	-677	-677	Revegetation - Rem Wst Site - 600-239																
<b>CGC0508 Remediate Waste Site - 600-146</b>																										
CGC0508A	Excavation	2	03OCT11*	04OCT11	31,088	05MAY08*	06MAY08	-682	-682	Excavation Process - Rem Wst Site - 600-146																
CGC0508B	Loadout - Rem	48	31OCT11	30JAN12	3,653	03JUN08	26AUG08	-682	-682	Loadout - Rem Wst Site - 600-146																
CGC0508D	Closeout Smpg	18	31JAN12	01MAR12	19,223	27AUG08	29SEP08	-682	-682	Closeout Smpg - Rem Wst Site - 600-146																
CGC0508C	Backfill - Rem	24	05MAR12	12APR12	6,714	30SEP08	10NOV08	-682	-682	Backfill - Rem Wst Site - 600-146																
CGC0508E	Revegetation -	6	16APR12	24APR12	449	11NOV08	19NOV08	-682	-682	Revegetation - Rem Wst Site - 600-146																
<b>CGC0509 Remediate Waste Site - 600-280</b>																										
CGC0509A	Excavation	48	22SEP11*	19DEC11	36,959	18JUN07*	11SEP07	-853	-853	Excavation Process - Rem Wst Site - 600-280																
CGC0509B	Loadout - Rem	48	20OCT11	19JAN12	14,612	17JUL07	09OCT07	-853	-853	Loadout - Rem Wst Site - 600-280																
CGC0509D	Closeout Smpg	159	23JAN12	31OCT12	19,223	10OCT07	28JUL08	-853	-853	Closeout Smpg - Rem Wst Site - 600-280																
CGC0509C	Backfill - Rem	24	01NOV12	17DEC12	19,547	29JUL08	09SEP08	-853	-853	Backfill - Rem Wst Site - 600-280																
CGC0509E	Revegetation -	6	18DEC12	31DEC12	1,017	10SEP08	18SEP08	-853	-853	Revegetation - Rem Wst Site - 600-280																
<b>CGC0510 Remediate Waste Site - 600-5</b>																										
CGC0510A	Excavation	48	03OCT11*	29DEC11	29,435	26JUN07	19SEP07	-853	-853	Excavation Process - Rem Wst Site - 600-5																
CGC0510B	Loadout - Rem	48	19OCT11	18JAN12	7,306	25JUL07	17OCT07	-847	-847	Loadout - Rem Wst Site - 600-5																
CGC0510D	Closeout Smpg	159	19JAN12	30OCT12	38,446	18OCT07	05AUG08	-847	-847	Closeout Smpg - Rem Wst Site - 600-5																
CGC0510C	Backfill - Rem	24	31OCT12	13DEC12	3,746	06AUG08	17SEP08	-847	-847	Backfill - Rem Wst Site - 600-5																
CGC0510E	Revegetation -	6	17DEC12	27DEC12	741	18SEP08	29SEP08	-847	-847	Revegetation - Rem Wst Site - 600-5																
<b>CGC0511 Remediate Waste Site - 600-100</b>																										
CGC0511A	Excavation	48	03OCT11	29DEC11	26,480	05JUL07	27SEP07	-848	-848	Excavation Process - Rem Wst Site - 600-100																
CGC0511B	Loadout - Rem	48	19OCT11	18JAN12	7,306	02AUG07	25OCT07	-842	-842	Loadout - Rem Wst Site - 600-100																
CGC0511D	Closeout Smpg	159	19JAN12	30OCT12	47,325	29OCT07	13AUG08	-842	-842	Closeout Smpg - Rem Wst Site - 600-100																
CGC0511C	Backfill - Rem	24	31OCT12	13DEC12	5,728	14AUG08	25SEP08	-842	-842	Backfill - Rem Wst Site - 600-100																



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
CGC0511E	Revegetation -	6	17DEC12	27DEC12	3,671	29SEP08	07OCT08	-842	-842	Revegetation - Rem Wst Site - 600-100												
CGC0512 Remediate Waste Site - 600-109																						
CGC0512A	Excavation	48	03OCT11	29DEC11	1,062,104	16JUL07	08OCT07	-843	-843	Excavation Process - Rem Wst Site - 600-109												
CGC0512B	Loadout - Rem	48	19OCT11	18JAN12	752,527	13AUG07	05NOV07	-837	-837	Loadout - Rem Wst Site - 600-109												
CGC0512D	Closeout Smpgl	159	19JAN12	30OCT12	62,430	06NOV07	21AUG08	-837	-837	Closeout Smpgl - Rem Wst Site - 600-109												
CGC0512C	Backfill - Rem	24	31OCT12	13DEC12	926,150	25AUG08	06OCT08	-837	-837	Backfill - Rem Wst Site - 600-109												
CGC0512E	Revegetation -	6	17DEC12	27DEC12	5,400	07OCT08	15OCT08	-837	-837	Revegetation - Rem Wst Site - 600-109												
CGC0513 Remediate Waste Site - 600-111																						
CGC0513A	Excavation	48	11OCT07	10JAN08	47,572	24JUL07	16OCT07	-45	-45	Excavation Process - Rem Wst Site - 600-111												
CGC0513B	Loadout - Rem	48	08NOV07	07FEB08	25,571	21AUG07	13NOV07	-45	-45	Loadout - Rem Wst Site - 600-111												
CGC0513D	Closeout Smpgl	159	11FEB08	19NOV08	25,897	14NOV07	02SEP08	-45	-45	Closeout Smpgl - Rem Wst Site - 600-111												
CGC0513C	Backfill - Rem	24	20NOV08	08JAN09	24,979	03SEP08	14OCT08	-45	-45	Backfill - Rem Wst Site - 600-111												
CGC0513E	Revegetation -	6	12JAN09	20JAN09	1,229	15OCT08	23OCT08	-45	-45	Revegetation - Rem Wst Site - 600-111												
CGC0514 Remediate Waste Site - 600-120																						
CGC0514A	Excavation	48	03OCT11	29DEC11	149,157	01AUG07	24OCT07	-833	-833	Excavation Process - Rem Wst Site - 600-120												
CGC0514B	Loadout - Rem	48	19OCT11	18JAN12	91,326	29AUG07	26NOV07	-827	-827	Loadout - Rem Wst Site - 600-120												
CGC0514D	Closeout Smpgl	159	19JAN12	30OCT12	34,933	27NOV07	10SEP08	-827	-827	Closeout Smpgl - Rem Wst Site - 600-120												
CGC0514C	Backfill - Rem	24	31OCT12	13DEC12	39,128	11SEP08	22OCT08	-827	-827	Backfill - Rem Wst Site - 600-120												
CGC0514E	Revegetation -	6	17DEC12	27DEC12	3,727	23OCT08	03NOV08	-827	-827	Revegetation - Rem Wst Site - 600-120												
CGC0515 Remediate Waste Site - 600-124																						
CGC0515A	Excavation	48	03OCT11	29DEC11	85,972	09AUG07	01NOV07	-828	-828	Excavation Process - Rem Wst Site - 600-124												
CGC0515B	Loadout - Rem	48	19OCT11	18JAN12	51,143	10SEP07	04DEC07	-822	-822	Loadout - Rem Wst Site - 600-124												
CGC0515D	Closeout Smpgl	159	19JAN12	30OCT12	34,679	05DEC07	18SEP08	-822	-822	Closeout Smpgl - Rem Wst Site - 600-124												
CGC0515C	Backfill - Rem	24	31OCT12	13DEC12	9,565	22SEP08	30OCT08	-822	-822	Backfill - Rem Wst Site - 600-124												
CGC0515E	Revegetation -	6	17DEC12	27DEC12	2,497	03NOV08	11NOV08	-822	-822	Revegetation - Rem Wst Site - 600-124												
CGC0516 Remediate Waste Site - 600-125																						
CGC0516A	Excavation	48	03OCT11	29DEC11	18,476	20AUG07	12NOV07	-823	-823	Excavation Process - Rem Wst Site - 600-125												
CGC0516B	Loadout - Rem	48	19OCT11	18JAN12	3,653	18SEP07	12DEC07	-817	-817	Loadout - Rem Wst Site - 600-125												
CGC0516D	Closeout Smpgl	159	19JAN12	30OCT12	9,738	13DEC07	29SEP08	-817	-817	Closeout Smpgl - Rem Wst Site - 600-125												
CGC0516C	Backfill - Rem	24	31OCT12	13DEC12	2,967	30SEP08	10NOV08	-817	-817	Backfill - Rem Wst Site - 600-125												
CGC0516E	Revegetation -	6	17DEC12	27DEC12	478	11NOV08	19NOV08	-817	-817	Revegetation - Rem Wst Site - 600-125												
CGC0517 Remediate Waste Site - 600-127																						
CGC0517A	Excavation	48	03OCT11	29DEC11	141,313	28AUG07	20NOV07	-818	-818	Excavation Process - Rem Wst Site - 600-127												
CGC0517B	Loadout - Rem	48	31OCT11	30JAN12	91,326	26SEP07	20DEC07	-818	-818	Loadout - Rem Wst Site - 600-127												
CGC0517D	Closeout Smpgl	18	31JAN12	01MAR12	33,976	26DEC07	28JAN08	-818	-818	Closeout Smpgl - Rem Wst Site - 600-127												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
<b>DAA3002 Waste Ops - ERDF Construction Cells 9 &amp; 10</b>																						
ROCAT010	Design Cells	106	02OCT06A	23APR07	406,570	03AUG11*	26MAR12	966	983	Design Cells 9/10												
ROCAT020	Procure Cells	62	14MAR07A	05JUL07	40,657	27MAR12	19JUN12	1,006	990	Procure Cells 9/10												
<b>DAA3075 Waste Ops - ERDF Construction Support</b>																						
ROCAA010	Construction	417	29AUG05A	09DEC08	1,700,115	04SEP07	01OCT09	402	163	Construction Support Cells 7/8												
<b>DAC3701 Waste Ops-Transportation Routes/Methods</b>																						
ROTKK010	300/600 Area	27	03OCT05A	22MAR07A	167,954	01OCT08*	31MAR09	599	404	300/600 Area Haul Road Design												
ROTKK030	Procure	1,049	14NOV06A	22MAR07A	78,364	01APR09	29JUN09	473	454	Procure 300/600 Area Haul Road												
ROTKK060	Construct	1,099	12JUN06A	22MAR07A	644,307	30JUN09	29JUN10	610	654	Construct 300/600 Area Haul Road												
<b>DAD3B01 Waste Ops-Closure Cells 3 &amp; 4</b>																						
ROXNQ010	Design & Const	96	13FEB06A	27SEP07	639,777	03APR06*	20SEP06	27	-204	Design & Const Interim Cover Cells 3&4												
<b>DAD3B75 Closure Support - Interim Cover Cells</b>																						
ROXNN010	Closure	96	05JUL07*	27DEC07	0	03APR06	20SEP06	-252	-252	Closure Support - Interim Cover Cells 3&4												
<b>DSA2901 Waste Ops-Management and Support</b>																						
RMMOO010	Waste Ops	199	03JAN06A	28SEP06A	343,826	03OCT05	28SEP06	-48	0	Waste Ops Direct Project Support - FY06												
RMMOO080	Waste Ops	200	01OCT12	30SEP13	78,939	01OCT12	29AUG13	0	-16	Waste Ops Direct Project Support - FY11												
RMMOO090	Waste Ops	9	01OCT13	15OCT13	27,554			0	0	Waste Ops Direct Project Support - FY14												
<b>DSB2901 Waste Ops-Field Operations Support</b>																						
RMFPP005	Waste Ops	19	15SEP05A	15SEP05A	55,137	29AUG05	29SEP05	-10	8	Waste Ops Field Operations Support - FY05												
RMFPP070	Waste Ops	199	29AUG05A	27SEP12	1,925,620	03OCT11	27SEP12	1,217	0	Waste Ops Field Operations Support - FY06												
RMFPP080	Waste Ops	200	01OCT12	30SEP13	148,995	01OCT12	29AUG13	0	-16	Waste Ops Field Operations Support - FY11												
RMFPP090	Waste Ops	9	01OCT13	15OCT13	52,079			0	0	Waste Ops Field Operations Support - FY13												
<b>300 AREA 300 Area</b>																						
<b>DE Remedial Design</b>																						
<b>CMC0101 Fld. Rem.-300 Area RS Design</b>																						
CMC0101A	Fld. Rem.-300	818	03OCT05A	05JUN08	3,501,240	29AUG05	30SEP09	-19	264	Fld. Rem.-300 Area RS Design												
<b>DD D4</b>																						
<b>ACA0701 D4 Building - 324 and Assoc Structs (WS 300-25)</b>																						
ACA0701A	Plan &	203	26SEP05A	28SEP06A	248,655	29AUG05	03OCT06	-15	2	Plan & Document - 324 and Associated Structures												
ACA0701B	Deact & Decom	199	03OCT05A	30SEP09	15,230,903	05SEP06*	26FEB09	184	-120	Deact & Decom - 324 and Associated Structures												
ACA0701D	Demolition	48	01OCT09	30DEC09	83,992	23SEP09	22SEP10	-5	147	Demolition Below Grade - 324 and Associated Structures												
ACA0701C	Demolition	96	01OCT09	29MAR10	8,308,480	29DEC08	23JUN10	-154	49	Demolition Above Grade - 324 and Associated Structures												
ACA0701E	Loadout - 324	170	29OCT09	07SEP10	416,692	27JAN09	22SEP10	-154	9	Loadout - 324 and Associated Structures (inc)												
ACA0701N	Complete	0		07SEP10	0		22SEP10	9	9	Complete Building 324 Demolition												
ACA0701F	Transition/Final	30	08SEP10	28OCT10	108,800	23SEP10	23MAY11	9	111	Transition/Final Closure - 324 and Associated Structures												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
ACB0702D	Demolition	62	29SEP11	24JAN12	0	28JUN10	14OCT10	-252	-252	Demolition Below Grade - 327BA (incl with D4 327BA)												
ACB0702E	Loadout -	83	03NOV11	05APR12	0	03AUG10	04JAN11	-252	-252	Loadout - 327BA (Costs included with D4 327BA)												
ACB0702F	Transition/Final	62	09APR12	26JUL12	0	05JAN11	25APR11	-252	-252	Transition/Final Closure - 327BA (incl D4 327BA)												
ADA D4-300 Area Sites																						
0041.99952	TPA M-92-16	0	03OCT05A		0	28SEP06*		198	198	◆TPA M-92-16 300 Area												
0041.99953	TPA M-94-05	0		16FEB06A	0		28SEP06*	124	124	◆TPA M-94-05 Complete D4 of 313 & 314 Facilities												
ADA01 D4-300 Area Sites																						
0041.99970	M-94-06 Compl	0		31DEC07*	0		27DEC07*	-1	-1	◆M-94-06 Compl Removal 3/19 High Priority Facils												
ADA0701 D4 Building - 3225																						
ADA0701B	Deact & Decom	28	24OCT05A	10NOV05A	8,100	16JAN06	06MAR06	43	59	■Deact & Decom - 3225												
ADA0701C	Demolition	7	24OCT05A	10NOV05A	7,860	07MAR06	16MAR06	71	66	■Demolition Above Grade - 3225												
ADA0701D	Demolition	10	24OCT05A	10NOV05A	310	20MAR06	04APR06	78	76	■Demolition Below Grade - 3225												
ADA0701E	Loadout - 3225	14	01NOV05A	10NOV05A	2,448	23MAR06	17APR06	76	83	■Loadout - 3225												
ADA0701A	Plan &	17	03OCT05A	30NOV05A	1,044	03JAN06*	31JAN06	48	32	■Plan & Document - 3225												
ADA0701F	Transition/Final	10	04SEP07*	19SEP07	1,180	18APR06	03MAY06	-276	-276	■Transition/Final Closure - 3225												
ADA0702 D4 Building - 332																						
ADA0702A	Plan &	13	02JUN10*	23JUN10	1,307	01JUL10*	26JUL10	17	17	■Plan & Document - 332												
ADA0702B	Deact & Decom	20	10JUN10	15JUL10	9,700	13JUL10	16AUG10	17	17	■Deact & Decom - 332												
ADA0702C	Demolition	5	19JUL10	26JUL10	9,413	17AUG10	24AUG10	17	17	■Demolition Above Grade - 332												
ADA0702D	Demolition	8	27JUL10	09AUG10	371	25AUG10	08SEP10	17	17	■Demolition Below Grade - 332												
ADA0702E	Loadout - 332	10	02AUG10	17AUG10	2,932	31AUG10	16SEP10	17	17	■Loadout - 332												
ADA0702F	Transition/Final	8	18AUG10	31AUG10	1,414	20SEP10	30SEP10	17	17	■Transition/Final Closure - 332												
ADA0703 D4 Building - 334																						
ADA0703A	Plan &	35	29AUG05A	27OCT05A	1,826	29AUG05	27SEP05	0	-18	■Plan & Document - 334												
ADA0703B	Deact & Decom	9	24OCT05A	22NOV05A	39,483	12SEP05	25OCT05	-24	-16	■Deact & Decom - 334												
ADA0703C	Demolition	19	03NOV05A	07DEC05A	11,371	26OCT05	07NOV05	-5	-16	■Demolition Above Grade - 334												
ADA0703D	Demolition	5	01MAY08*	08MAY08	2,385	08NOV05	28NOV05	-494	-489	■Demolition Below Grade - 334												
ADA0703E	Loadout - 334	13	07NOV05A	21MAY08	2,458	15NOV05	08DEC05	5	-489	■Loadout - 334												
ADA0703F	Transition/Final	20	22MAY08	26JUN08	1,323	12DEC05	29DEC05	-489	-499	■Transition/Final Closure - 334												
ADA0704 D4 Building - 334A																						
ADA0704A	Plan &	17	21SEP05A	18OCT05A	5,964	29AUG05	27SEP05	-13	-12	■Plan & Document - 334A												
ADA0704B	Deact & Decom	26	24OCT05A	22NOV05A	151,613	12SEP05	25OCT05	-24	-16	■Deact & Decom - 334A												
ADA0704C	Demolition	7	03NOV05A	07DEC05A	32,605	26OCT05	07NOV05	-5	-16	■Demolition Above Grade - 334A												
ADA0704D	Demolition	10	03NOV05A	07DEC05A	6,839	08NOV05	28NOV05	2	-6	■Demolition Below Grade - 334A												
ADA0704E	Loadout - 334A	13	07DEC05A	08DEC05A	7,049	15NOV05	08DEC05	-11	0	■Loadout - 334A												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
ADA0704F	Transition/Final	20	25JUN08*	30JUL08	3,794	12DEC05	29DEC05	-507	-517	Transition/Final Closure - 334A												
ADA0705 D4 Building - 3727																						
ADA0705A	Plan &	20	07JUN10*	12JUL10	5,959	25JUL11*	15AUG11	226	219	Plan & Document - 3727												
ADA0705B	Deact & Decom	20	15JUN10	20JUL10	74,471	02AUG11	06SEP11	226	226	Deact & Decom - 3727												
ADA0705C	Demolition	5	21JUL10	28JUL10	32,237	07SEP11	14SEP11	226	226	Demolition Above Grade - 3727												
ADA0705D	Demolition	8	29JUL10	11AUG10	6,761	15SEP11	28SEP11	226	226	Demolition Below Grade - 3727												
ADA0705E	Loadout - 3727	10	04AUG10	19AUG10	6,970	21SEP11	06OCT11	226	226	Loadout - 3727												
ADA0705F	Transition/Final	8	23AUG10	02SEP10	3,751	10OCT11	20OCT11	226	226	Transition/Final Closure - 3727												
ADA0707 D4 Building - 303A																						
ADA0707B	Deact & Decom	6	23JAN06A	02FEB06A	30,147	16OCT08	18NOV08	549	560	Deact & Decom - 303A												
ADA0707D	Demolition	7	19DEC05A	02FEB06A	2,730	02DEC08	11DEC08	590	572	Demolition Below Grade - 303A												
ADA0707A	Plan &	54	07NOV05A	15FEB06A	8,706	08OCT08*	28OCT08	583	541	Plan & Document - 303A												
ADA0707C	Demolition	8	16FEB06A	16FEB06A	16,243	19NOV08	01DEC08	553	557	Demolition Above Grade - 303A												
ADA0707E	Loadout - 303A	9	27FEB06A	28MAR07	1,931	08DEC08	22DEC08	557	348	Loadout - 303A												
ADA0707F	Transition/Final	15	08SEP09*	01OCT09	2,855	23DEC08	07JAN09	-141	-149	Transition/Final Closure - 303A												
ADA0708 D4 Building - 303B																						
ADA0708B	Deact & Decom	6	21FEB06A	06MAR06A	30,147	16OCT08	18NOV08	533	544	Deact & Decom - 303B												
ADA0708A	Plan &	43	09JAN06A	23MAR06A	8,706	08OCT08	28OCT08	552	521	Plan & Document - 303B												
ADA0708C	Demolition	2	04APR06A	05APR06A	16,243	19NOV08	01DEC08	528	531	Demolition Above Grade - 303B												
ADA0708E	Loadout - 303B	9	04APR06A	22MAR07A	1,641	08DEC08	22DEC08	536	351	Loadout - 303B												
ADA0708D	Demolition	7	01OCT08*	13OCT08	2,730	02DEC08	11DEC08	33	33	Demolition Below Grade - 303B												
ADA0708F	Transition/Final	7	22OCT08	03NOV08	2,855	23DEC08	07JAN09	33	33	Transition/Final Closure - 303B												
ADA0709 D4 Building - 303C																						
ADA0709A	Plan &	54	09JAN06A	14JUN06A	8,706	08OCT08	28OCT08	552	475	Plan & Document - 303C												
ADA0709B	Deact & Decom	8	05JUN06A	14JUN06A	30,147	16OCT08	18NOV08	475	487	Deact & Decom - 303C												
ADA0709C	Demolition	1	03JUL06A	06JUL06A	16,243	19NOV08	01DEC08	478	480	Demolition Above Grade - 303C												
ADA0709D	Demolition	5	02JUN08*	09JUN08	2,730	02DEC08	11DEC08	101	103	Demolition Below Grade - 303C												
ADA0709E	Loadout - 303C	9	01AUG06A	17JUN08	1,931	08DEC08	22DEC08	470	103	Loadout - 303C												
ADA0709F	Transition/Final	20	18JUN08	23JUL08	2,855	23DEC08	07JAN09	103	90	Transition/Final Closure - 303C												
ADA0710 D4 Building - 303E																						
ADA0710A	Plan &	53	22NOV05A	02MAR06A	8,706	06JUL09*	03AUG09	720	684	Plan & Document - 303E												
ADA0710B	Deact & Decom	6	21FEB06A	02MAR06A	30,147	16JUL09	01SEP09	681	701	Deact & Decom - 303E												
ADA0710C	Demolition	3	15MAR06A	16MAR06A	16,243	02SEP09	15SEP09	695	700	Demolition Above Grade - 303E												
ADA0710D	Demolition	5	02JUL08*	10JUL08	2,730	16SEP09	01OCT09	241	246	Demolition Below Grade - 303E												
ADA0710E	Loadout - 303E	14	16MAR06A	23JUL08	1,931	22SEP09	14OCT09	704	246	Loadout - 303E												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
ADA0710F	Transition/Final	20	24JUL08	27AUG08	2,855	15OCT09	02NOV09	246	236	Transition/Final Closure - 303E												
ADA0711 D4 Building - 303F																						
ADA0711A	Plan &	48	28NOV05A	23FEB06A	8,706	02OCT06*	19OCT06	169	133	Plan & Document - 303F												
ADA0711B	Deact & Decom	19	01FEB06A	02MAR06A	141,662	10OCT06	09NOV06	139	141	Deact & Decom - 303F												
ADA0711C	Demolition	3	29MAR06A	30MAR06A	16,243	13NOV06	20NOV06	127	130	Demolition Above Grade - 303F												
ADA0711D	Demolition	10	15MAY08*	03JUN08	2,730	21NOV06	05DEC06	-295	-298	Demolition Below Grade - 303F												
ADA0711E	Loadout - 303F	10	29MAR06A	11JUN08	1,931	28NOV06	13DEC06	134	-298	Loadout - 303F												
ADA0711F	Transition/Final	20	12JUN08	17JUL08	2,855	14DEC06	28DEC06	-298	-311	Transition/Final Closure - 303F												
ADA0712 D4 Building - 303G																						
ADA0712B	Deact & Decom	4	24JAN06A	02FEB06A	30,147	10OCT06	09NOV06	144	156	Deact & Decom - 303G												
ADA0712A	Plan &	42	21NOV05A	08FEB06A	8,706	02OCT06	19OCT06	171	141	Plan & Document - 303G												
ADA0712C	Demolition	5	09FEB06A	09FEB06A	16,243	13NOV06	20NOV06	153	157	Demolition Above Grade - 303G												
ADA0712D	Demolition	11	01AUG07*	20AUG07	2,730	21NOV06	05DEC06	-137	-141	Demolition Below Grade - 303G												
ADA0712E	Loadout - 303G	1	13FEB06A	28AUG07	1,931	28NOV06	13DEC06	159	-141	Loadout - 303G												
ADA0712F	Transition/Final	20	11AUG08*	15SEP08	2,855	14DEC06	28DEC06	-330	-343	Transition/Final Closure - 303G												
ADA0713 D4 Building - 303J																						
ADA0713B	Deact & Decom	24	09JAN06A	16FEB06A	242,123	16JUL09	01SEP09	705	708	Deact & Decom - 303J												
ADA0713C	Demolition	5	07MAR06A	08MAR06A	45,771	02SEP09	15SEP09	700	705	Demolition Above Grade - 303J												
ADA0713A	Plan &	35	19DEC05A	09MAR06A	24,389	06JUL09	03AUG09	707	680	Plan & Document - 303J												
ADA0713D	Demolition	5	04JUN09*	11JUN09	7,692	16SEP09	01OCT09	57	62	Demolition Below Grade - 303J												
ADA0713E	Loadout - 303J	1	08MAR06A	24JUN09	5,441	22SEP09	14OCT09	709	62	Loadout - 303J												
ADA0713F	Transition/Final	12	25JUN09*	16JUL09	8,045	15OCT09	02NOV09	62	60	Transition/Final Closure - 303J												
ADA0714 D4 Building - 303M																						
ADA0714A	Plan &	101	29AUG05A	19JAN06A	13,944	29AUG05	02NOV05	0	-40	Plan & Document - 303M												
ADA0714C	Demolition	25	09MAR06A	22MAR06A	26,257	17JAN06	09FEB06	-29	-22	Demolition Above Grade - 303M												
ADA0714B	Deact & Decom	50	21DEC05A	23MAR06A	229,028	26SEP05	16JAN06	-48	-38	Deact & Decom - 303M												
ADA0714M	Complete	0		13JUN06A	0		09FEB06	-68	-68	Complete Building 303M Above Grade Demolition												
ADA0714D	Demolition	5	01AUG07*	08AUG07	4,413	13FEB06	23MAR06	-294	-276	Demolition Below Grade - 303M												
ADA0714E	Loadout - 303M	30	22MAR06A	05SEP07	3,121	28FEB06	19APR06	-13	-276	Loadout - 303M												
ADA0714F	Transition/Final	10	06SEP07	24SEP07	4,615	20APR06	31MAY06	-276	-263	Transition/Final Closure - 303M												
ADA0715 D4 Building - 304 (See Also Waste Site 300-249)																						
ADA0715B	Deact & Decom	7	24JAN06A	02FEB06A	84,067	16OCT08	18NOV08	548	560	Deact & Decom - 304 (incl WS 300-249)												
ADA0715A	Plan &	26	03JAN06A	15FEB06A	8,638	08OCT08	28OCT08	555	541	Plan & Document - 304 (incl WS 300-249)												
ADA0715C	Demolition	4	21FEB06A	23FEB06A	15,892	19NOV08	01DEC08	552	554	Demolition Above Grade - 304 (incl WS 300-249)												
ADA0715E	Loadout - 304	9	01MAR06A	02MAR06A	1,889	08DEC08	22DEC08	555	562	Loadout - 304 (includes Waste Site 300-249)												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
ADA0715D	Demolition	5	23JUN08*	30JUN08	2,671	02DEC08	11DEC08	89	91	Demolition Below Grade - 304 (incl WS 300-249)												
ADA0715F	Transition/Final	20	07AUG08*	11SEP08	2,793	23DEC08	07JAN09	75	62	Transition/Final Closure - 304 (incl WS 300-249)												
ADA0716 D4 Building - 304A																						
ADA0716B	Deact & Decom	19	24JAN06A	02FEB06A	16,323	16OCT08	18NOV08	548	560	Deact & Decom - 304A												
ADA0716A	Plan &	4	09JAN06A	15FEB06A	1,297	08OCT08	28OCT08	552	541	Plan & Document - 304A												
ADA0716C	Demolition	5	21FEB06A	23FEB06A	7,066	19NOV08	01DEC08	552	554	Demolition Above Grade - 304A												
ADA0716D	Demolition	5	23JUN08	30JUN08	1,482	02DEC08	11DEC08	89	91	Demolition Below Grade - 304A												
ADA0716E	Loadout - 304A	9	01MAR06A	09JUL08	1,528	08DEC08	22DEC08	555	91	Loadout - 304A												
ADA0716F	Transition/Final	20	07AUG08	11SEP08	822	23DEC08	07JAN09	75	62	Transition/Final Closure - 304A												
ADA0717 D4 Building - 305																						
ADA0717A	Plan &	143	17JAN06A	24JUL06A	103,392	05SEP06*	31OCT06	128	56	Plan & Document - 305												
ADA0717B	Deact & Decom	20	19JUN06A	17AUG06A	991,159	26JUN08*	30SEP08	405	423	Deact & Decom - 305												
ADA0717C	Demolition	8	28AUG06A	05SEP06A	166,852	01OCT08	22OCT08	419	427	Demolition Above Grade - 305												
ADA0717D	Demolition	10	23OCT06A	07DEC06A	0	23OCT08	01DEC08	401	395	Demolition Below Grade - 305												
ADA0717E	Loadout - 305	11	12SEP06A	21DEC06A	31,294	04NOV08	23DEC08	430	400	Loadout - 305												
ADA0717F	Transition/Final	15	08SEP09*	01OCT09	3,014	29DEC08	02FEB09	-140	-135	Transition/Final Closure - 305												
ADA0718 D4 Building - 305A																						
ADA0718A	Plan &	33	26MAR09*	21MAY09	337	05SEP06	31OCT06	-510	-510	Plan & Document - 305A												
ADA0718B	Deact & Decom	53	20APR09	22JUL09	7,278	27SEP06	04JAN07	-510	-510	Deact & Decom - 305A												
ADA0718C	Demolition	13	23JUL09	13AUG09	2,523	08JAN07	29JAN07	-510	-510	Demolition Above Grade - 305A												
ADA0718D	Demolition	20	17AUG09	21SEP09	424	30JAN07	06MAR07	-510	-510	Demolition Below Grade - 305A												
ADA0718E	Loadout - 305A	27	26AUG09	13OCT09	300	08FEB07	28MAR07	-510	-510	Loadout - 305A												
ADA0718F	Transition/Final	20	14OCT09	17NOV09	444	29MAR07	02MAY07	-510	-510	Transition/Final Closure - 305A												
ADA0719 D4 Building - 305B																						
ADA0719A	Plan &	1	19JUN06A	17AUG06A	54,205	01OCT07*	19NOV07	257	251	Plan & Document - 305B												
ADA0719B	Deact & Decom	41	17JUL06A	24AUG06A	921,164	22OCT07	16JUL09	254	577	Deact & Decom - 305B												
ADA0719C	Demolition	1	21AUG06A	24AUG06A	93,050	20JUL09	06AUG09	581	589	Demolition Above Grade - 305B												
ADA0719D	Demolition	16	05OCT06A	02NOV06A	45,543	10AUG09	08SEP09	567	567	Demolition Below Grade - 305B												
ADA0719E	Loadout - 305B	18	12SEP06A	06NOV06A	17,624	19AUG09	29SEP09	587	578	Loadout - 305B												
ADA0719F	Transition/Final	15	08SEP09	01OCT09	11,719	30SEP09	28OCT09	13	15	Transition/Final Closure - 305B												
ADA0720 D4 Building - 305-BA																						
ADA0720A	Plan &	16	02OCT06A	09OCT06A	926	20JUL09	13AUG09	558	569	Plan & Document - 305-BA												
ADA0720B	Deact & Decom	25	02OCT06A	09OCT06A	20,035	29JUL09	10SEP09	564	584	Deact & Decom - 305-BA												
ADA0720C	Demolition	6	10OCT06A	10OCT06A	7,012	14SEP09	22SEP09	584	589	Demolition Above Grade - 305-BA												
ADA0720D	Demolition	9	11OCT06A	17OCT06A	277	23SEP09	07OCT09	589	594	Demolition Below Grade - 305-BA												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year													
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16		
ADA0720E	Loadout -	13	17OCT06A	17OCT06A	2,184	28SEP09	19OCT09	588	600														
ADA0720F	Transition/Final	15	07SEP10*	30SEP10	1,053	20OCT09	03NOV09	-175	-181														
<b>ADA0721 D4 Building - 305P</b>																							
ADA0721A	Plan &	8	04MAY09*	14MAY09	111	20JUL09*	30JUL09	42	42														
ADA0721B	Deact & Decom	12	07MAY09	28MAY09	0	23JUL09	12AUG09	42	42														
ADA0721C	Demolition	3	01JUN09	03JUN09	0	13AUG09	18AUG09	42	42														
ADA0721D	Demolition	5	04JUN09	11JUN09	0	19AUG09	26AUG09	42	42														
ADA0721E	Loadout - 305P	6	09JUN09	17JUN09	0	24AUG09	01SEP09	42	42														
ADA0721F	Transition/Final	5	18JUN09	25JUN09	260	02SEP09	10SEP09	42	42														
<b>ADA0722 D4 Building - 306E (See Also Waste Site 300-41)</b>																							
ADA0722A	Plan &	133	29AUG05A	28SEP06A	309,034	01DEC05*	26JUN06	52	-53														
ADA0722B	Deact & Decom	60	09JAN06A	28SEP06A	4,517,106	03APR06	29MAR07	47	98														
ADA0722C	Demolition	20	21NOV06A	21DEC06A	353,845	01OCT07*	05DEC07	170	190														
ADA0722D	Demolition	20	26MAR07	26APR07	0	06DEC07	18MAR08	142	177														
ADA0722E	Loadout - 306E	302	15JAN07A	05SEP07	64,252	15JAN08	21MAY08	200	142														
ADA0722M	Complete	0		05SEP07	0		21MAY08	142	142														
ADA0722F	Transition/Final	20	14JUL08*	14AUG08	9,086	22MAY08	28AUG08	-27	8														
<b>ADA0723 D4 Building - 306E-BA</b>																							
ADA0723A	Plan &	30	01APR08*	21MAY08	1,610	05SEP06*	21FEB07	-313	-251														
ADA0723B	Deact & Decom	10	05JUN08	23JUN08	34,771	08NOV06	02AUG07	-313	-177														
ADA0723C	Demolition	5	24JUN08	01JUL08	12,166	06AUG07	09OCT07	-177	-145														
ADA0723D	Demolition	5	02JUL08	10JUL08	480	10OCT07	22JAN08	-145	-95														
ADA0723E	Loadout -	5	09SEP08	16SEP08	3,789	13NOV07	27MAR08	-163	-95														
ADA0723F	Transition/Final	20	17SEP08	21OCT08	1,827	31MAR08	07JUL08	-95	-60														
<b>ADA0724 D4 Building - 306W</b>																							
ADA0724A	Plan &	152	03OCT05A	28SEP06A	541,711	01NOV05*	19APR06	17	-90														
ADA0724B	Deact & Decom	1	03JUL06A	28SEP06A	7,820,056	01MAR06*	05DEC07	-69	236														
ADA0724C	Demolition	20	26MAR08*	29APR08	612,579	01OCT07*	05DEC07	-96	-79														
ADA0724D	Demolition	30	30APR08*	23JUN08	675,889	06DEC07	18MAR08	-79	-54														
ADA0724E	Loadout -	72	28APR08	03SEP08	111,233	15JAN08	21MAY08	-58	-57														
ADA0724F	Transition/Final	13	04SEP08	25SEP08	15,729	22MAY08	28AUG08	-57	-15														
<b>ADA0726 D4 Building -309(300-39,TW1,TW2,TW3,WS1,WS2,WS3)</b>																							
ADA0726A	Plan &	231	02NOV09*	03JAN11	322,245	01SEP10*	01FEB11	166	17														
ADA0726B	Deact & Decom	216	06JAN10	02FEB11	4,662,725	01NOV10	28DEC11	166	180														
ADA0726C	Demolition	60	03FEB11	19MAY11	3,895,303	29DEC11	28FEB12	180	153														

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
ADA0726D	Demolition	60	23MAY11	07SEP11	1,183,623	29FEB12	23MAY12	153	142	Demolition Below Grade - 309 (incl WS 300-309)												
ADA0726E	Loadout - 309	60	21JUL11	03NOV11	65,804	28MAR12	24JUL12	136	142	Loadout - 309 (includes Waste Sites 300-309)												
ADA0726F	Transition/Final	30	07NOV11	04JAN12	264,711	25JUL12	18OCT12	142	161	Transition/Final Closure - 309 (incl WS 300-309)												
ADA0731 D4 Building - 314 (See Also Waste Site 300-218)																						
ADA0731A	Plan &	9	29AUG05A	22SEP05A	140,570	29AUG05	02NOV05	0	23	Plan & Document - 314 (incl WS 300-218)												
ADA0731B	Deact & Decom	60	29AUG05A	29SEP05A	999,360	26SEP05	16JAN06	15	56	Deact & Decom - 314 (incl WS 300-218)												
ADA0731C	Demolition	82	29AUG05A	05DEC05A	280,400	17JAN06	09FEB06	75	36	Demolition Above Grade - 314 (incl WS 300-218)												
ADA0731E	Loadout - 314	30	04OCT05A	26JAN06A	55,360	28FEB06	19APR06	78	46	Loadout - 314 (includes Waste Site 300-218)												
ADA0731D	Demolition	20	04JUN08*	09JUL08	0	13FEB06	23MAR06	-462	-459	Demolition Below Grade - 314 (incl WS 300-218)												
ADA0731F	Transition/Final	20	10JUL08	13AUG08	5,332	20APR06	31MAY06	-444	-441	Transition/Final Closure - 314 (incl WS 300-218)												
ADA0732 D4 Building - 314B																						
ADA0732A	Plan &	38	29AUG05A	29SEP05A	4,429	29AUG05	02NOV05	0	19	Plan & Document - 314B												
ADA0732B	Deact & Decom	60	29AUG05A	29SEP05A	52,930	26SEP05	16JAN06	15	56	Deact & Decom - 314B												
ADA0732C	Demolition	15	29AUG05A	29SEP05A	30,066	17JAN06	09FEB06	75	71	Demolition Above Grade - 314B												
ADA0732D	Demolition	23	29AUG05A	29SEP05A	6,638	13FEB06	23MAR06	90	94	Demolition Below Grade - 314B												
ADA0732E	Loadout - 314B	30	29AUG05A	02APR07	6,842	28FEB06	19APR06	98	-189	Loadout - 314B												
ADA0732F	Transition/Final	20	10JUL12*	13AUG12	3,682	20APR06	31MAY06	-1,242	1,239	Transition/Final Closure - 314B												
ADA0733 D4 Building - 315A																						
ADA0733A	Plan &	60	03JAN12*	17APR12	13,250	09FEB12	15MAR12	22	-18	Plan & Document - 315A												
ADA0733B	Deact & Decom	32	18APR12	13JUN12	21,342	27FEB12	19APR12	-30	-30	Deact & Decom - 315A												
ADA0733C	Demolition	8	14JUN12	27JUN12	1,336	23APR12	03MAY12	-30	-30	Demolition Above Grade - 315A												
ADA0733D	Demolition	12	28JUN12	19JUL12	49,577	07MAY12	24MAY12	-30	-30	Demolition Below Grade - 315A												
ADA0733E	Loadout - 315A	16	09JUL12	02AUG12	6,691	14MAY12	11JUN12	-30	-30	Loadout - 315A												
ADA0733F	Transition/Final	12	06AUG12	23AUG12	14,271	12JUN12	02JUL12	-30	-30	Transition/Final Closure - 315A												
ADA0734 D4 Building - 315B																						
ADA0734A	Plan &	60	03JAN12	17APR12	1,173	09FEB12	15MAR12	22	-18	Plan & Document - 315B												
ADA0734B	Deact & Decom	32	18APR12	13JUN12	11,279	27FEB12	19APR12	-30	-30	Deact & Decom - 315B												
ADA0734C	Demolition	8	14JUN12	27JUN12	2,016	23APR12	03MAY12	-30	-30	Demolition Above Grade - 315B												
ADA0734D	Demolition	12	28JUN12	19JUL12	353	07MAY12	24MAY12	-30	-30	Demolition Below Grade - 315B												
ADA0734E	Loadout - 315B	16	09JUL12	02AUG12	599	14MAY12	11JUN12	-30	-30	Loadout - 315B												
ADA0734F	Transition/Final	12	06AUG12	23AUG12	671	12JUN12	02JUL12	-30	-30	Transition/Final Closure - 315B												
ADA0735 D4 Building - 315C																						
ADA0735A	Plan &	60	03JAN12	17APR12	3,758	09FEB12	15MAR12	22	-18	Plan & Document - 315C												
ADA0735B	Deact & Decom	32	18APR12	13JUN12	4,686	27FEB12	19APR12	-30	-30	Deact & Decom - 315C												
ADA0735C	Demolition	8	14JUN12	27JUN12	15,898	23APR12	03MAY12	-30	-30	Demolition Above Grade - 315C												







Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16														
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16			
ADA0758C	Demolition	30	31JUL08	23SEP08	193,024	04JUN12	25JUN12	766	749															
ADA0758D	Demolition	20	24SEP08	28OCT08	29,371	26JUN12	31JUL12	749	749															
ADA0758E	Loadout - 337	27	06OCT08	19NOV08	80,694	09JUL12	22AUG12	749	749															
ADA0758F	Transition/Final	15	20NOV08	18DEC08	49,613	23AUG12	27SEP12	749	754															
ADA0759 D4 Building - 337B																								
ADA0759A	Plan &	33	02JAN07A	03DEC07	73,365	06FEB12	03APR12	1,018	865															
ADA0759B	Deact & Decom	53	24OCT11*	31JAN12	830,848	29FEB12	31MAY12	68	68															
ADA0759C	Demolition	30	01FEB12	26MAR12	553,515	04JUN12	25JUN12	68	51															
ADA0759D	Demolition	20	27MAR12	30APR12	96,250	26JUN12	31JUL12	51	51															
ADA0759E	Loadout - 337B	27	05APR12	22MAY12	259,880	09JUL12	22AUG12	51	51															
ADA0759F	Transition/Final	20	23MAY12	27JUN12	39,952	23AUG12	27SEP12	51	51															
ADA0760 D4 Building - 337-BA																								
ADA0760B	Deact & Decom	15	24APR12	17MAY12	41,914	29FEB12	31MAY12	-31	7															
ADA0760A	Plan &	33	02APR12*	29MAY12	1,934	06FEB12	03APR12	-31	-31															
ADA0760C	Demolition	13	30MAY12	20JUN12	14,684	04JUN12	25JUN12	2	2															
ADA0760D	Demolition	5	21JUN12	28JUN12	579	26JUN12	31JUL12	2	17															
ADA0760E	Loadout -	10	09JUL12	24JUL12	4,573	09JUL12	22AUG12	0	17															
ADA0760F	Transition/Final	20	25JUL12	28AUG12	2,205	23AUG12	27SEP12	17	17															
ADA0761 D4 Building - 338																								
ADA0761A	Plan &	25	03JAN12*	14FEB12	62,737	09FEB12	26MAR12	22	22															
ADA0761B	Deact & Decom	39	19JAN12	28MAR12	620,016	29FEB12	07MAY12	22	22															
ADA0761C	Demolition	10	29MAR12	16APR12	100,367	08MAY12	23MAY12	22	22															
ADA0761D	Demolition	15	17APR12	10MAY12	15,272	24MAY12	20JUN12	22	22															
ADA0761E	Loadout - 338	20	25APR12	30MAY12	41,958	05JUN12	10JUL12	22	22															
ADA0761F	Transition/Final	15	31MAY12	26JUN12	25,797	11JUL12	06AUG12	22	22															
ADA0764 D4 Building - 340A																								
ADA0764A	Plan &	25	01SEP10*	14OCT10	29,173	04OCT10	15NOV10	17	17															
ADA0764B	Deact & Decom	30	21SEP10	10NOV10	354,771	20OCT10	05JAN11	17	27															
ADA0764C	Demolition	10	11NOV10	01DEC10	32,684	06JAN11	24JAN11	27	27															
ADA0764D	Demolition	15	02DEC10	03JAN11	3,082	25JAN11	17FEB11	27	27															
ADA0764E	Loadout - 340A	20	13DEC10	19JAN11	64,237	02FEB11	09MAR11	27	27															
ADA0764F	Transition/Final	15	20JAN11	15FEB11	3,223	10MAR11	05APR11	27	27															
ADA0765 D4 Building - 340B																								
ADA0765A	Plan &	25	01SEP10	14OCT10	21,470	04OCT10	15NOV10	17	17															
ADA0765B	Deact & Decom	40	21SEP10	01DEC10	349,744	20OCT10	05JAN11	17	17															









Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Data												
ADA0791C	Demolition	7	05DEC11	14DEC11	9,069	19DEC11	03JAN12	8	8	Demolition Above Grade - 366A (incl WS 300-61a)												
ADA0791D	Demolition	10	15DEC11	05JAN12	0	04JAN12	19JAN12	8	8	Demolition Below Grade - 366A (incl WS 300-61a)												
ADA0791E	Loadout - 366A	13	22DEC11	18JAN12	251	11JAN12	01FEB12	8	8	Loadout - 366A (includes Waste Sites 300-61a)												
ADA0791F	Transition/Final	10	19JAN12	06FEB12	0	02FEB12	21FEB12	8	8	Transition/Final Closure - 366A (incl WS 300-61a)												
<b>ADA0793 D4 Building - 3701U</b>																						
ADA0793A	Plan &	8	17OCT11	27OCT11	0	03OCT11	13OCT11	-8	-8	Plan & Document - 3701U												
ADA0793B	Deact & Decom	12	20OCT11	09NOV11	0	06OCT11	26OCT11	-8	-8	Deact & Decom - 3701U												
ADA0793C	Demolition	3	10NOV11	15NOV11	0	27OCT11	01NOV11	-8	-8	Demolition Above Grade - 3701U												
ADA0793D	Demolition	5	16NOV11	28NOV11	1,883	02NOV11	09NOV11	-8	-8	Demolition Below Grade - 3701U												
ADA0793E	Loadout -	6	21NOV11	01DEC11	639	07NOV11	15NOV11	-8	-8	Loadout - 3701U												
ADA0793F	Transition/Final	5	05DEC11	12DEC11	3,584	16NOV11	28NOV11	-8	-8	Transition/Final Closure - 3701U												
<b>ADA0796 D4 Building - 3705</b>																						
ADA0796B	Deact & Decom	30	03MAY06A	12JUN06A	449,834	24MAY10	22JUL10	810	822	Deact & Decom - 3705												
ADA0796A	Plan &	21	17APR06A	19JUN06A	46,549	10MAY10	15JUN10	812	797	Plan & Document - 3705												
ADA0796C	Demolition	7	19JUN06A	22JUN06A	75,724	26JUL10	05AUG10	819	823	Demolition Above Grade - 3705												
ADA0796D	Demolition	1	26JUN06A	29JUN06A	0	09AUG10	30AUG10	823	832	Demolition Below Grade - 3705												
ADA0796E	Loadout - 3705	1	26JUN06A	29JUN06A	14,203	16AUG10	14SEP10	827	840	Loadout - 3705												
ADA0796F	Transition/Final	13	07SEP10*	28SEP10	1,368	15SEP10	06OCT10	5	5	Transition/Final Closure - 3705												
<b>ADA0797 D4 Building - 3705-BA</b>																						
ADA0797B	Deact & Decom	10	01DEC10	16DEC10	12,253	24MAY10	22JUL10	-105	-81	Deact & Decom - 3705-BA												
ADA0797A	Plan &	21	15NOV10*	27DEC10	380	10MAY10	15JUN10	-105	-105	Plan & Document - 3705-BA												
ADA0797C	Demolition	8	28DEC10	11JAN11	4,283	26JUL10	05AUG10	-84	-84	Demolition Above Grade - 3705-BA												
ADA0797D	Demolition	4	12JAN11	18JAN11	169	09AUG10	30AUG10	-84	-75	Demolition Below Grade - 3705-BA												
ADA0797E	Loadout -	4	26JAN11	01FEB11	1,334	16AUG10	14SEP10	-88	-75	Loadout - 3705-BA												
ADA0797F	Transition/Final	13	02FEB11	24FEB11	643	15SEP10	06OCT10	-75	-75	Transition/Final Closure - 3705-BA												
<b>ADA0798 D4 Building - 3706</b>																						
ADA0798B	Deact & Decom	20	11OCT06A	29MAR07	2,125,662	01NOV06	16AUG07	12	78	Deact & Decom - 3706												
ADA0798A	Plan &	193	03OCT05A	10APR07	263,185	01AUG06*	31OCT06	165	-86	Plan & Document - 3706												
ADA0798C	Demolition	12	11APR07	01MAY07	297,883	20AUG07	13SEP07	72	75	Demolition Above Grade - 3706												
ADA0798M	Complete	0		01MAY07	0		13SEP07	75	75	Complete Building 3706 Above Grade Demolition												
ADA0798D	Demolition	15	05MAY08*	29MAY08	328,926	17SEP07	23OCT07	-126	-119	Demolition Below Grade - 3706												
ADA0798E	Loadout - 3706	30	05MAY08	25JUN08	54,090	27SEP07	19NOV07	-119	-119	Loadout - 3706												
ADA0798F	Transition/Final	15	26JUN08	23JUL08	7,649	20NOV07	03JAN08	-119	-112	Transition/Final Closure - 3706												
<b>ADA07A1 D4 Building - 3706A</b>																						
ADA07A1A	Plan &	30	02FEB06A	15MAR07A	10,906	01AUG06*	31OCT06	99	-72	Plan & Document - 3706A												





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
ADA07B6A	Plan &	23	05JAN06A	14FEB06A	21,590	05JUL11	02AUG11	1,098	1,092	■ Plan & Document - 3715												
ADA07B6C	Demolition	4	16FEB06A	23FEB06A	34,363	01SEP11	14SEP11	1,108	1,111	■ Demolition Above Grade - 3715												
ADA07B6D	Demolition	10	01OCT07*	16OCT07	5,229	15SEP11	03OCT11	791	791	■ Demolition Below Grade - 3715												
ADA07B6E	Loadout - 3715	1	21FEB06A	29OCT07	14,365	21SEP11	13OCT11	1,117	791	■ Loadout - 3715												
ADA07B6F	Transition/Final	20	30OCT07	05DEC07	8,832	17OCT11	01NOV11	791	781	■ Transition/Final Closure - 3715												
ADA07B7 D4 Building - 3716																						
ADA07B7A	Plan &	18	01DEC05A	15DEC05A	21,470	01DEC05*	05JAN06	0	9	■ Plan & Document - 3716												
ADA07B7B	Deact & Decom	125	05DEC05A	15DEC05A	74,437	14DEC05	31JUL06	6	123	■ Deact & Decom - 3716												
ADA07B7C	Demolition	7	03JAN06A	05JAN06A	40,106	01AUG06	10AUG06	117	121	■ Demolition Above Grade - 3716												
ADA07B7D	Demolition	10	21JUL08*	05AUG08	6,740	14AUG06	30AUG06	-386	-385	■ Demolition Below Grade - 3716												
ADA07B7E	Loadout - 3716	14	16JAN06A	18AUG08	4,768	21AUG06	13SEP06	121	-385	■ Loadout - 3716												
ADA07B7F	Transition/Final	20	19AUG08	23SEP08	7,050	14SEP06	03OCT06	-385	-394	■ Transition/Final Closure - 3716												
ADA07B8 D4 Building - 3717																						
ADA07B8A	Plan &	21	10APR06A	08JUN06A	32,381	10MAY10	15JUN10	816	802	■ Plan & Document - 3717												
ADA07B8B	Deact & Decom	30	01MAY06A	08JUN06A	112,606	24MAY10	22JUL10	812	823	■ Deact & Decom - 3717												
ADA07B8C	Demolition	1	28JUN06A	28JUN06A	51,851	26JUL10	05AUG10	813	820	■ Demolition Above Grade - 3717												
ADA07B8D	Demolition	1	03JUL06A	06JUL06A	7,890	09AUG10	30AUG10	819	829	■ Demolition Below Grade - 3717												
ADA07B8E	Loadout - 3717	1	24JUL06A	01AUG06A	21,676	16AUG10	14SEP10	812	823	■ Loadout - 3717												
ADA07B8F	Transition/Final	13	07SEP10*	28SEP10	13,327	15SEP10	06OCT10	5	5	■ Transition/Final Closure - 3717												
ADA07B9 D4 Building - 3717B																						
ADA07B9A	Plan &	21	03APR06A	08JUN06A	73,642	10MAY10	15JUN10	820	802	■ Plan & Document - 3717B												
ADA07B9B	Deact & Decom	30	03APR06A	08JUN06A	1,183,495	24MAY10	22JUL10	828	823	■ Deact & Decom - 3717B												
ADA07B9C	Demolition	1	27JUN06A	28JUN06A	119,523	26JUL10	05AUG10	814	820	■ Demolition Above Grade - 3717B												
ADA07B9D	Demolition	1	27JUN06A	28JUN06A	0	09AUG10	30AUG10	822	833	■ Demolition Below Grade - 3717B												
ADA07B9E	Loadout -	1	24JUL06A	01AUG06A	22,417	16AUG10	14SEP10	812	823	■ Loadout - 3717B												
ADA07B9F	Transition/Final	13	07SEP10*	28SEP10	2,159	15SEP10	06OCT10	5	5	■ Transition/Final Closure - 3717B												
ADA07C1 D4 Building - 3717C																						
ADA07C1A	Plan &	50	03OCT11*	04JAN12	7,887	01MAY12*	30JUL12	115	115	■ Plan & Document - 3717C												
ADA07C1B	Deact & Decom	40	07NOV11	23JAN12	22,934	06JUN12	25OCT12	115	155	■ Deact & Decom - 3717C												
ADA07C1C	Demolition	20	24JAN12	28FEB12	12,977	29OCT12	04DEC12	155	155	■ Demolition Above Grade - 3717C												
ADA07C1D	Demolition	30	29FEB12	19APR12	2,270	05DEC12	30JAN13	155	155	■ Demolition Below Grade - 3717C												
ADA07C1E	Loadout -	20	23APR12	24MAY12	3,854	26DEC12	07MAR13	135	155	■ Loadout - 3717C												
ADA07C1F	Transition/Final	30	29MAY12	19JUL12	4,321	11MAR13	30APR13	155	155	■ Transition/Final Closure - 3717C												
ADA07C2 D4 Building - 3718																						
ADA07C2A	Plan &	25	03OCT11*	14NOV11	12,576	28SEP10*	09NOV10	-202	-202	■ Plan & Document - 3718												







Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16											
										Gantt Chart Area											
ADA07D4B	Deact & Decom	5	16OCT06A	21MAR07A	5,193,135	02JUL07*	30SEP08	141	307	■ Deact & Decom - 3720											
ADA07D4C	Demolition	64	26MAR07	24SEP07	291,372	01OCT08	30OCT08	306	222	■ Demolition Above Grade - 3720											
ADA07D4D	Demolition	27	25SEP07	08NOV07	0	03NOV08	22DEC08	222	222	■ Demolition Below Grade - 3720											
ADA07D4E	Loadout - 3720	93	28JUN07	13DEC07	54,649	17NOV08	27JAN09	278	222	■ Loadout - 3720											
ADA07D4M	Complete	0		13DEC07	0		27JAN09	222	222	◆ Complete Building 3720 Demolition											
ADA07D4F	Transition/Final	15	17DEC07	15JAN08	5,263	28JAN09	17MAR09	222	234	■ Transition/Final Closure - 3720											
ADA07D5 D4 Building - 3720-BA																					
ADA07D5B	Deact & Decom	229	01MAR07A	21MAR07A	37,988	25AUG08	03DEC08	298	342	■ Deact & Decom - 3720-BA											
ADA07D5A	Plan &	254	01MAR07A	30MAY07	1,709	30JUL08	30SEP08	284	268	■ Plan & Document - 3720-BA											
ADA07D5C	Demolition	5	31MAY07	07JUN07	13,272	04DEC08	31DEC08	303	312	■ Demolition Above Grade - 3720-BA											
ADA07D5D	Demolition	5	11JUN07	18JUN07	524	05JAN09	09FEB09	312	328	■ Demolition Below Grade - 3720-BA											
ADA07D5E	Loadout -	5	05JUL07	12JUL07	4,134	15JAN09	05MAR09	305	328	■ Loadout - 3720-BA											
ADA07D5F	Transition/Final	21	16JUL07	20AUG07	1,993	09MAR09	13APR09	328	328	■ Transition/Final Closure - 3720-BA											
ADA07D6 D4 Building - 3721																					
ADA07D6A	Plan &	20	01NOV11*	07DEC11	725	01MAY12	22MAY12	98	91	■ Plan & Document - 3721											
ADA07D6B	Deact & Decom	20	09NOV11	15DEC11	5,675	09MAY12	13JUN12	98	98	■ Deact & Decom - 3721											
ADA07D6C	Demolition	5	19DEC11	28DEC11	5,506	14JUN12	21JUN12	98	98	■ Demolition Above Grade - 3721											
ADA07D6D	Demolition	8	29DEC11	12JAN12	217	25JUN12	09JUL12	98	98	■ Demolition Below Grade - 3721											
ADA07D6E	Loadout - 3721	10	05JAN12	23JAN12	1,715	28JUN12	17JUL12	98	98	■ Loadout - 3721											
ADA07D6F	Transition/Final	8	24JAN12	06FEB12	827	18JUL12	31JUL12	98	98	■ Transition/Final Closure - 3721											
ADA07D7 D4 Building - 3722																					
ADA07D7B	Deact & Decom	26	09JAN06A	02FEB06A	161,871	20OCT10	07DEC10	958	968	■ Deact & Decom - 3722											
ADA07D7A	Plan &	26	27DEC05A	09FEB06A	16,630	07OCT10	03NOV10	957	947	■ Plan & Document - 3722											
ADA07D7C	Demolition	12	09FEB06A	14FEB06A	28,691	08DEC10	20DEC10	965	969	■ Demolition Above Grade - 3722											
ADA07D7D	Demolition	10	30AUG07*	18SEP07	0	21DEC10	11JAN11	660	660	■ Demolition Below Grade - 3722											
ADA07D7E	Loadout - 3722	1	14FEB06A	01OCT07	8,364	03JAN11	24JAN11	974	660	■ Loadout - 3722											
ADA07D7F	Transition/Final	20	02OCT07	05NOV07	9,377	25JAN11	09FEB11	660	650	■ Transition/Final Closure - 3722											
ADA07D9 D4 Building - 3728																					
ADA07D9A	Plan &	17	04JUN12*	02JUL12	21,470	31MAY12	28JUN12	-1	-1	■ Plan & Document - 3728											
ADA07D9B	Deact & Decom	20	14JUN12	19JUL12	212,113	13JUN12	31JUL12	-1	6	■ Deact & Decom - 3728											
ADA07D9C	Demolition	7	23JUL12	01AUG12	40,106	01AUG12	13AUG12	6	6	■ Demolition Above Grade - 3728											
ADA07D9D	Demolition	10	02AUG12	20AUG12	6,740	14AUG12	29AUG12	6	6	■ Demolition Below Grade - 3728											
ADA07D9E	Loadout - 3728	14	08AUG12	30AUG12	4,768	20AUG12	12SEP12	6	6	■ Loadout - 3728											
ADA07D9F	Transition/Final	10	04SEP12	19SEP12	7,050	13SEP12	01OCT12	6	6	■ Transition/Final Closure - 3728											

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Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
ADA07E1 D4 Building - 3730																						
ADA07E1A	Plan &	19	01OCT08*	03NOV08	23,113	03OCT11*	02NOV11	599	599	■ Plan & Document - 3730												
ADA07E1B	Deact & Decom	31	15OCT08	10DEC08	711,648	17OCT11	12DEC11	599	599	■ Deact & Decom - 3730												
ADA07E1C	Demolition	32	11DEC08	10FEB09	45,658	13DEC11	28DEC11	599	575	■ Demolition Above Grade - 3730												
ADA07E1D	Demolition	12	11FEB09	04MAR09	7,673	29DEC11	19JAN12	575	575	■ Demolition Below Grade - 3730												
ADA07E1E	Loadout - 3730	15	23FEB09	18MAR09	5,428	10JAN12	02FEB12	575	575	■ Loadout - 3730												
ADA07E1M	Complete	0		18MAR09	0		02FEB12	575	575	◆ Complete Building 3730 Demolition												
ADA07E1F	Transition/Final	12	19MAR09	08APR09	8,026	06FEB12	27FEB12	575	575	■ Transition/Final Closure - 3730												
ADA07E2 D4 Building - 3731																						
ADA07E2A	Plan &	17	02OCT06A	12OCT06A	10,524	05JUL11	02AUG11	949	958	■ Plan & Document - 3731												
ADA07E2B	Deact & Decom	27	09OCT06A	16OCT06A	100,674	18JUL11	31AUG11	952	974	■ Deact & Decom - 3731												
ADA07E2C	Demolition	10	26MAR07	10APR07	18,023	01SEP11	14SEP11	889	886	■ Demolition Above Grade - 3731												
ADA07E2D	Demolition	10	11APR07	26APR07	3,152	15SEP11	03OCT11	886	886	■ Demolition Below Grade - 3731												
ADA07E2E	Loadout - 3731	10	24APR07	09MAY07	5,353	22SEP11	13OCT11	883	886	■ Loadout - 3731												
ADA07E2F	Transition/Final	10	04SEP07*	19SEP07	6,001	17OCT11	01NOV11	823	823	■ Transition/Final Closure - 3731												
ADA07E3 D4 Building - 3731A																						
ADA07E3A	Plan &	17	02OCT06A	12OCT06A	10,524	05JUL11	02AUG11	949	958	■ Plan & Document - 3731A												
ADA07E3B	Deact & Decom	27	09OCT06A	16OCT06A	169,523	18JUL11	31AUG11	952	974	■ Deact & Decom - 3731A												
ADA07E3C	Demolition	7	26MAR07	04APR07	18,023	01SEP11	14SEP11	889	889	■ Demolition Above Grade - 3731A												
ADA07E3D	Demolition	10	05APR07	23APR07	3,152	15SEP11	03OCT11	889	889	■ Demolition Below Grade - 3731A												
ADA07E3E	Loadout -	13	12APR07	03MAY07	5,353	22SEP11	13OCT11	889	889	■ Loadout - 3731A												
ADA07E3F	Transition/Final	10	04SEP07	19SEP07	6,001	17OCT11	01NOV11	823	823	■ Transition/Final Closure - 3731A												
ADA07E4 D4 Building - 3745																						
ADA07E4A	Plan &	24	16OCT06A	26MAR07	34,219	07DEC09*	14JAN10	627	561	■ Plan & Document - 3745												
ADA07E4B	Deact & Decom	31	22FEB07A	05APR07	553,986	21DEC09	23FEB10	566	575	■ Deact & Decom - 3745												
ADA07E4C	Demolition	20	09APR07	10MAY07	55,965	24FEB10	09MAR10	575	563	■ Demolition Above Grade - 3745												
ADA07E4D	Demolition	13	14MAY07	05JUN07	0	10MAR10	31MAR10	563	563	■ Demolition Below Grade - 3745												
ADA07E4E	Loadout - 3745	17	21MAY07	19JUN07	10,497	17MAR10	14APR10	563	563	■ Loadout - 3745												
ADA07E4F	Transition/Final	13	04SEP07	25SEP07	1,011	15APR10	06MAY10	522	522	■ Transition/Final Closure - 3745												
ADA07E5 D4 Building - 3745A																						
ADA07E5B	Deact & Decom	31	22FEB07A	14MAR07A	139,666	21DEC09	23FEB10	566	588	■ Deact & Decom - 3745A												
ADA07E5A	Plan &	24	13NOV06A	26MAR07	8,641	07DEC09	14JAN10	611	561	■ Plan & Document - 3745A												
ADA07E5C	Demolition	8	27MAR07	09APR07	16,005	24FEB10	09MAR10	582	582	■ Demolition Above Grade - 3745A												
ADA07E5D	Demolition	13	10APR07	01MAY07	2,690	10MAR10	31MAR10	582	582	■ Demolition Below Grade - 3745A												
ADA07E5E	Loadout -	17	17APR07	15MAY07	1,903	17MAR10	14APR10	582	582	■ Loadout - 3745A												





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
ADA07F3F	Transition/Final	5	26MAR12	02APR12	10,052	18SEP12	25SEP12	98	98	Transition/Final Closure - 3763												
ADA07F5 D4 Building - 3766																						
ADA07F5A	Plan &	20	07FEB12	13MAR12	10,464	01AUG12	22AUG12	98	91	Plan & Document - 3766												
ADA07F5B	Deact & Decom	21	15FEB12	22MAR12	31,455	09AUG12	17SEP12	98	98	Deact & Decom - 3766												
ADA07F5C	Demolition	5	26MAR12	02APR12	17,798	18SEP12	25SEP12	98	98	Demolition Above Grade - 3766												
ADA07F5D	Demolition	8	03APR12	16APR12	3,113	26SEP12	09OCT12	98	98	Demolition Below Grade - 3766												
ADA07F5E	Loadout - 3766	10	09APR12	24APR12	5,286	02OCT12	17OCT12	98	98	Loadout - 3766												
ADA07F5F	Transition/Final	8	25APR12	08MAY12	5,926	18OCT12	31OCT12	98	98	Transition/Final Closure - 3766												
ADA07F8 D4 Building - 377																						
ADA07F8B	Deact & Decom	39	10APR06A	11MAY06A	239,362	21SEP06	30NOV06	92	111	Deact & Decom - 377												
ADA07F8A	Plan &	143	04OCT05A	15MAY06A	24,006	05SEP06*	16OCT06	183	85	Plan & Document - 377												
ADA07F8C	Demolition	10	11MAY06A	01JUN06A	45,245	04DEC06	19DEC06	112	110	Demolition Above Grade - 377												
ADA07F8D	Demolition	15	11MAY06A	20JUL06A	7,604	20DEC06	18JAN07	122	98	Demolition Below Grade - 377												
ADA07F8E	Loadout - 377	19	15MAY06A	02AUG06A	6,127	04JAN07	06FEB07	127	101	Loadout - 377												
ADA07F8M	Complete	0		23MAR07A	0		06FEB07	-25	-25	Complete 118-K-1 Loadout and Bldg 377 Demolition												
ADA07F8F	Transition/Final	14	04SEP07*	26SEP07	7,953	07FEB07	06MAR07	-115	-114	Transition/Final Closure - 377												
ADA07G6 D4 Building - 384 (WS 300-222,300-223,UPR-300-42)																						
ADA07G6A	Plan &	90	06NOV06A	24APR07	120,390	04OCT10*	08DEC10	780	725	Plan & Document - 384 (incl Wastes Sites 300-222)												
ADA07G6B	Deact & Decom	90	23JAN07A	31MAY07	2,968,064	28OCT10	17FEB11	755	742	Deact & Decom - 384 (incl Wastes Sites 300-222)												
ADA07G6C	Demolition	65	04JUN07	27SEP07	454,693	22FEB11	17MAR11	742	691	Demolition Above Grade - 384 (incl WS 300-222)												
ADA07G6D	Demolition	15	10JUL08*	05AUG08	12,644	21MAR11	26APR11	536	543	Demolition Below Grade - 384 (incl WS 300-222)												
ADA07G6E	Loadout - 384	59	19MAY08	02SEP08	199,310	31MAR11	23MAY11	572	543	Loadout - 384 (includes Wastes Sites 300-222)												
ADA07G6EM	Complete	0		02SEP08	0		23MAY11	543	543	Complete Building 384 Demolition												
ADA07G6F	Transition/Final	15	03SEP08	29SEP08	44,601	24MAY11	30JUN11	543	550	Transition/Final Closure - 384 (incl WS 300-222)												
ADA07G9 D4 Building - MO-026																						
ADA07G9A	Plan &	21	03APR06A	23MAY06A	2,654	07DEC09	14JAN10	736	727	Plan & Document - MO-026												
ADA07G9B	Deact & Decom	12	30MAY06A	08JUN06A	0	21DEC09	23FEB10	712	739	Deact & Decom - MO-026												
ADA07G9C	Demolition	8	22JUN06A	22JUN06A	10,276	24FEB10	09MAR10	732	739	Demolition Above Grade - MO-026												
ADA07G9D	Demolition	1	22JUN06A	22JUN06A	0	10MAR10	31MAR10	740	752	Demolition Below Grade - MO-026												
ADA07G9E	Loadout -	1	26JUN06A	28JUN06A	0	17MAR10	14APR10	743	757	Loadout - MO-026												
ADA07G9F	Transition/Final	13	04SEP07*	25SEP07	939	15APR10	06MAY10	522	522	Transition/Final Closure - MO-026												
ADA07H2 D4 Building - MO-052																						
ADA07H2A	Plan &	16	10OCT05A	03NOV05A	3,246	03JAN06*	31JAN06	44	45	Plan & Document - MO-052												
ADA07H2B	Deact & Decom	28	24OCT05A	10NOV05A	0	16JAN06	06MAR06	43	59	Deact & Decom - MO-052												
ADA07H2C	Demolition	5	24OCT05A	10NOV05A	13,913	07MAR06	16MAR06	71	66	Demolition Above Grade - MO-052												







Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
ADA0803E	Loadout -	13	07DEC05A	23APR07	17,142	15NOV05	08DEC05	-11	-272													
ADA0803F	Transition/Final	20	25JUN08*	30JUL08	1,284	12DEC05	29DEC05	-507	-517													
<b>ADR2501 D4-Non Site Specific Support 300 Area Sites</b>																						
ADR2501A1	D4-300 Area	24	29AUG05A	24OCT05A	447,277	29AUG05	29SEP05	0	-13													
ADR2501A2	D4-300 Area	203	23AUG06A	28DEC06A	2,181,211	03OCT05	28SEP06	-178	-48													
ADR2501A9	D4-300 Area	143	01OCT12	18JUN13	5,046,431	01OCT12	30APR13	0	-27													
<b>RA Field Remediation</b>																						
<b>CMA0302 Confirmatory Sampling Site - 300-2</b>																						
CMA0302A	Work	57	01NOV07*	19FEB08	23,263	06AUG12	31OCT12	949	942													
CMA0302B	Smpg and	25	20FEB08	02APR08	17,268	01NOV12	18DEC12	942	942													
CMA0302C	RSVP or RTD	93	03APR08	17SEP08	10,137	19DEC12	27FEB13	942	886													
<b>CMA0303 Confirmatory Sampling Site - 300-32 (333 Bldg)</b>																						
CMA0303A	Work	57	16OCT07*	30JAN08	8,199	29AUG05	28NOV05	-426	-433													
CMA0303B	Smpg and	25	28FEB08	10APR08	17,268	04SEP07	16OCT07	-96	-96													
CMA0303C	RSVP or RTD	93	22OCT08	13APR09	10,137	17OCT07	20MAR08	-203	-212													
<b>CMA0304 Confirmatory Sampling Site - 300-7</b>																						
CMA0304B	Smpg and	26	27MAR06A	20JUN06A	40,121	17MAY06	29JUN06	30	6													
CMA0304C	RSVP or RTD	39	30MAY06A	26JUL06A	10,137	28JUN06	28NOV06	17	68													
<b>CMA0305 Confirmatory Sampling Site - 300-9</b>																						
CMA0305B	Smpg and	28	28MAR06A	20JUN06A	40,121	22MAY06	05JUL06	31	8													
CMA0305C	RSVP or RTD	39	30MAY06A	05JUL06A	10,137	03JUL06	30NOV06	19	82													
<b>CMA0306 Confirmatory Sampling Site - 303-M UOF</b>																						
CMA0306A	Work	57	30OCT07*	13FEB08	15,732	13SEP05	12DEC05	-426	-433													
CMA0306B	Smpg and	25	14FEB08	31MAR08	40,121	15MAY06	27JUN06	-350	-350													
CMA0306C	RSVP or RTD	93	01APR08	15SEP08	10,137	06JUL06	05DEC06	-346	-355													
<b>CMA0307 Confirmatory Sampling Site - UPR-300-2</b>																						
CMA0307A	Work	57	19NOV07*	05MAR08	15,732	04OCT10*	05JAN11	573	566													
CMA0307C	RSVP or RTD	93	25APR11	06OCT11	10,137	25APR11	21SEP11	0	-9													
<b>CMA0308 Confirmatory Sampling Site - 331 LSLDF</b>																						
CMA0308A	Work	34	06DEC05A	19JUN06A	15,732	15MAR06*	11MAY06	53	-20													
CMA0308B	Smpg and	28	18APR06A	11JUN07	17,268	24MAY06	10JUL06	21	-184													
CMA0308C	RSVP or RTD	59	03APR08	17JUL08	10,137	11JUL06	08NOV06	-346	-336													
<b>CMA0309 Confirmatory Sampling Site - 331 LSLT1</b>																						
CMA0309A	Work	34	29AUG05A	24AUG06A	15,732	01MAR06*	27APR06	99	-66													
<b>CMA0310 Confirmatory Sampling Site - 331 LSLT2</b>																						
CMA0310A	Work	34	06DEC05A	01MAY06A	15,732	15MAR06	11MAY06	53	7													





Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
CMB0510E Revegetation -											Revegetation - Rem Wst Site - 300 RRLWS											
CMB0511 Remediate Waste Site - 300 VTS											Closeout Smpgl - Rem Wst Site - 300 VTS											
CMB0511D	Closeout Smpgl	159	03OCT05A	08MAR06A	21,126	29AUG05	14JUN06	-19	55													
CMB0511C	Backfill - Rem	34	14AUG06A	17AUG06A	145,032	06JUL06	21AUG06	-21	1	Backfill - Rem Wst Site - 300 VTS												
CMB0511E	Revegetation -	5	20SEP11*	27SEP11	5,549	28AUG06	05SEP06	-1,011	-1,011	Revegetation - Rem Wst Site - 300 VTS												
CMB0512 Remediate Waste Site - 300-109											Excavation Process - Rem Wst Site - 300-109											
CMB0512A	Excavation	5	14APR09	21APR09	4,065	21JAN08	28JAN08	-247	-247	Loadout - Rem Wst Site - 300-109												
CMB0512B	Loadout - Rem	5	12MAY09	19MAY09	1,263	19FEB08	26FEB08	-247	-247	Closeout Smpgl - Rem Wst Site - 300-109												
CMB0512D	Closeout Smpgl	159	20MAY09	09MAR10	4,474	27FEB08	09DEC08	-247	-247	Backfill - Rem Wst Site - 300-109												
CMB0512C	Backfill - Rem	2	10MAR10	11MAR10	983	10DEC08	11DEC08	-247	-247	Revegetation - Rem Wst Site - 300-109												
CMB0512E	Revegetation -	1	15MAR10	15MAR10	163	15DEC08	15DEC08	-247	-247													
CMB0514 Remediate Waste Site - 300-110											Excavation Process - Rem Wst Site - 300-110											
CMB0514A	Excavation	5	02SEP08*	09SEP08	56	25OCT07*	01NOV07	-169	-169	Loadout - Rem Wst Site - 300-110												
CMB0514B	Loadout - Rem	5	30SEP08	07OCT08	17	27NOV07	04DEC07	-169	-169	Closeout Smpgl - Rem Wst Site - 300-110												
CMB0514D	Closeout Smpgl	159	08OCT08	27JUL09	61	05DEC07	18SEP08	-169	-169	Backfill - Rem Wst Site - 300-110												
CMB0514C	Backfill - Rem	2	28JUL09	29JUL09	13	22SEP08	23SEP08	-169	-169	Revegetation - Rem Wst Site - 300-110												
CMB0514E	Revegetation -	1	30JUL09	30JUL09	2	24SEP08	24SEP08	-169	-169													
CMB0515 Remediate Waste Site - 300-121											Excavation Process - Rem Wst Site - 300-121											
CMB0515A	Excavation	5	23MAY12	31MAY12	70	09MAY12	15MAY12	-8	-9	Loadout - Rem Wst Site - 300-121												
CMB0515B	Loadout - Rem	4	21JUN12	27JUN12	17	07JUN12	13JUN12	-8	-8	Closeout Smpgl - Rem Wst Site - 300-121												
CMB0515D	Closeout Smpgl	159	28JUN12	16APR13	61	14JUN12	02APR13	-8	-8	Backfill - Rem Wst Site - 300-121												
CMB0515C	Backfill - Rem	1	17APR13	17APR13	13	03APR13	03APR13	-8	-8	Revegetation - Rem Wst Site - 300-121												
CMB0515E	Revegetation -	1	18APR13	18APR13	2	04APR13	04APR13	-8	-8													
CMB0516 Remediate Waste Site - 300-123 (Building 366A)											Excavation Process - Rem Wst Site - 300-123 (D4											
CMB0516A	Excavation	5	25APR12*	02MAY12	121,729	09MAY12*	16MAY12	8	8	Loadout - Rem Wst Site - 300-123 (D4 366A)												
CMB0516B	Loadout - Rem	5	23MAY12	31MAY12	40,438	07JUN12	14JUN12	8	8	Closeout Smpgl - Rem Wst Site - 300-123 (D4 366A)												
CMB0516D	Closeout Smpgl	159	04JUN12	20MAR13	54,108	18JUN12	03APR13	8	8	Backfill - Rem Wst Site - 300-123 (D4 366A)												
CMB0516C	Backfill - Rem	2	21MAR13	25MAR13	41,366	04APR13	08APR13	8	8	Revegetation - Rem Wst Site - 300-123 (D4 366A)												
CMB0516E	Revegetation -	1	26MAR13	26MAR13	1,298	09APR13	09APR13	8	8													
CMB0517 Remediate Waste Site - 300-15											Excavation Process - Rem Wst Site - 300-15											
CMB0517A	Excavation	225	04OCT10*	15NOV11	2,594,675	25MAY11*	18APR12	128	83	Loadout - Rem Wst Site - 300-15												
CMB0517B	Loadout - Rem	180	20JAN11	12DEC11	384,376	23JUN11	16MAY12	86	86	Closeout Smpgl - Rem Wst Site - 300-15												
CMB0517D	Closeout Smpgl	159	13DEC11	26SEP12	767,559	17MAY12	06MAR13	86	86	Backfill - Rem Wst Site - 300-15												
CMB0517C	Backfill - Rem	123	11APR12	15NOV12	1,287,309	13SEP12	25APR13	86	86	Revegetation - Rem Wst Site - 300-15												
CMB0517E	Revegetation -	2	19NOV12	20NOV12	112,946	29APR13	30APR13	86	86													









Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
CMB0551E	Revegetation -	2	21DEC06A	28DEC06A	10,607	23AUG06	24AUG06	-66	-67	Revegetation - Rem Wst Site - 300-8												
CMB0552 Remediate Waste Site - 300-80																						
CMB0552A	Excavation	5	05OCT09	12OCT09	251	03FEB09	10FEB09	-135	-135	Excavation Process - Rem Wst Site - 300-80												
CMB0552B	Loadout - Rem	5	02NOV09	09NOV09	78	04MAR09	11MAR09	-135	-135	Loadout - Rem Wst Site - 300-80												
CMB0552D	Closeout Smpg	159	10NOV09	26AUG10	276	12MAR09	28DEC09	-135	-135	Closeout Smpg - Rem Wst Site - 300-80												
CMB0552C	Backfill - Rem	2	30AUG10	31AUG10	61	29DEC09	30DEC09	-135	-135	Backfill - Rem Wst Site - 300-80												
CMB0552E	Revegetation -	1	01SEP10	01SEP10	10	04JAN10	04JAN10	-135	-135	Revegetation - Rem Wst Site - 300-80												
CMB0553 Remediate Waste Site - 303-M SA																						
CMB0553A	Excavation	6	14APR09	22APR09	4,242	21JAN08	29JAN08	-247	-247	Excavation Process - Rem Wst Site - 303-M SA												
CMB0553B	Loadout - Rem	6	12MAY09	20MAY09	664	19FEB08	27FEB08	-247	-247	Loadout - Rem Wst Site - 303-M SA												
CMB0553D	Closeout Smpg	159	21MAY09	10MAR10	3,092	28FEB08	10DEC08	-247	-247	Closeout Smpg - Rem Wst Site - 303-M SA												
CMB0553C	Backfill - Rem	2	11MAR10	15MAR10	761	11DEC08	15DEC08	-247	-247	Backfill - Rem Wst Site - 303-M SA												
CMB0553E	Revegetation -	1	16MAR10	16MAR10	119	16DEC08	16DEC08	-247	-247	Revegetation - Rem Wst Site - 303-M SA												
CMB0554 Remediate Waste Site - 305-B SF																						
CMB0554A	Excavation	100	26MAR07	19SEP07	0	12MAR09	08SEP09	393	393	Excavation Process - Rem Wst Site - 305-B SF												
CMB0554B	Loadout - Rem	100	23APR07	17OCT07	0	09APR09	06OCT09	393	393	Loadout - Rem Wst Site - 305-B SF												
CMB0554D	Closeout Smpg	159	18OCT07	05AUG08	0	07OCT09	26JUL10	393	393	Closeout Smpg - Rem Wst Site - 305-B SF												
CMB0554C	Backfill - Rem	13	06AUG08	27AUG08	0	27JUL10	17AUG10	393	393	Backfill - Rem Wst Site - 305-B SF												
CMB0554E	Revegetation -	3	29SEP09	01OCT09	0	18AUG10	23AUG10	177	177	Revegetation - Rem Wst Site - 305-B SF												
CMB0558 Remediate Waste Site - 313 ESSP																						
CMB0558A	Excavation	21	21JUL08*	25AUG08	40,792	08OCT07*	12NOV07	-156	-156	Excavation Process - Rem Wst Site - 313 ESSP												
CMB0558B	Loadout - Rem	21	18AUG08	23SEP08	11,041	05NOV07	12DEC07	-156	-156	Loadout - Rem Wst Site - 313 ESSP												
CMB0558D	Closeout Smpg	159	24SEP08	13JUL09	17,907	13DEC07	29SEP08	-156	-156	Closeout Smpg - Rem Wst Site - 313 ESSP												
CMB0558C	Backfill - Rem	8	14JUL09	27JUL09	10,372	30SEP08	13OCT08	-156	-156	Backfill - Rem Wst Site - 313 ESSP												
CMB0558E	Revegetation -	2	28JUL09	29JUL09	1,048	14OCT08	15OCT08	-156	-156	Revegetation - Rem Wst Site - 313 ESSP												
CMB0560 Remediate Waste Site - 316-3																						
CMB0560A	Excavation	115	03OCT11*	30APR12	681,576	03OCT11*	20MAR12	0	-23	Excavation Process - Rem Wst Site - 316-3												
CMB0560B	Loadout - Rem	92	13DEC11	29MAY12	300,953	31OCT11	17APR12	-23	-23	Loadout - Rem Wst Site - 316-3												
CMB0560D	Closeout Smpg	159	30MAY12	18MAR13	172,120	18APR12	04FEB13	-23	-23	Closeout Smpg - Rem Wst Site - 316-3												
CMB0560C	Backfill - Rem	33	19MAR13	14MAY13	312,819	05FEB13	03APR13	-23	-23	Backfill - Rem Wst Site - 316-3												
CMB0560E	Revegetation -	7	15MAY13	28MAY13	11,885	04APR13	16APR13	-23	-23	Revegetation - Rem Wst Site - 316-3												
CMB0570 Remediate Waste Site - 333 ESHWSA																						
CMB0570A	Excavation	5	14APR09	21APR09	1,225	21JAN08	28JAN08	-247	-247	Excavation Process - Rem Wst Site - 333 ESHWSA												
CMB0570B	Loadout - Rem	5	12MAY09	19MAY09	381	19FEB08	26FEB08	-247	-247	Loadout - Rem Wst Site - 333 ESHWSA												
CMB0570D	Closeout Smpg	159	20MAY09	09MAR10	1,348	27FEB08	09DEC08	-247	-247	Closeout Smpg - Rem Wst Site - 333 ESHWSA												

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart Area												
CMB0570C	Backfill - Rem	2	10MAR10	11MAR10	296	10DEC08	11DEC08	-247	-247	Backfill - Rem Wst Site - 333 ESHWSA												
CMB0570E	Revegetation -	1	15MAR10	15MAR10	49	15DEC08	15DEC08	-247	-247	Revegetation - Rem Wst Site - 333 ESHWSA												
<b>CMB0575 Remediate Waste Site - 340 Complex</b>																						
CMB0575E	Revegetation -	1	15APR13	15APR13	2,252	24APR13	24APR13	6	6	Revegetation - Rem Wst Site - 340 Complex												
<b>CMB0579 Remediate Waste Site - 600-243</b>																						
CMB0579A	Excavation	6	26MAR07*	03APR07	7,181	02OCT06*	10OCT06	-94	-94	Excavation Process - Rem Wst Site - 600-243												
CMB0579B	Loadout - Rem	6	23APR07	01MAY07	3,963	30OCT06	07NOV06	-94	-94	Loadout - Rem Wst Site - 600-243												
CMB0579D	Closeout Smpg	159	05MAY08*	19FEB09	2,267	08NOV06	27AUG07	-295	-295	Closeout Smpg - Rem Wst Site - 600-243												
CMB0579C	Backfill - Rem	2	23FEB09	24FEB09	4,120	28AUG07	29AUG07	-295	-295	Backfill - Rem Wst Site - 600-243												
CMB0579E	Revegetation -	1	25FEB09	25FEB09	157	30AUG07	30AUG07	-295	-295	Revegetation - Rem Wst Site - 600-243												
<b>CMB0580 Remediate Waste Site - 600-259</b>																						
CMB0580A	Excavation	5	29AUG05A	29AUG05A	6,730	29AUG05	06SEP05	0	4	Excavation Process - Rem Wst Site - 600-259												
CMB0580B	Loadout - Rem	5	29AUG05A	29AUG05A	3,714	27SEP05	04OCT05	16	20	Loadout - Rem Wst Site - 600-259												
CMB0580D	Closeout Smpg	159	14SEP05A	19JAN06A	2,124	05OCT05	24JUL06	12	102	Closeout Smpg - Rem Wst Site - 600-259												
CMB0580C	Backfill - Rem	2	14AUG06A	17AUG06A	4,626	08AUG06	09AUG06	-3	-5	Backfill - Rem Wst Site - 600-259												
CMB0580E	Revegetation -	1	21DEC06A	28DEC06A	147	16AUG06	16AUG06	-70	-72	Revegetation - Rem Wst Site - 600-259												
<b>CMB0581 Remediate Waste Site - 600-47</b>																						
CMB0581A	Excavation	8	29AUG05A	29AUG05A	30,609	07SEP05	20SEP05	5	12	Excavation Process - Rem Wst Site - 600-47												
CMB0581B	Loadout - Rem	8	29AUG05A	29AUG05A	16,894	05OCT05	18OCT05	21	28	Loadout - Rem Wst Site - 600-47												
CMB0581D	Closeout Smpg	159	29AUG05A	29AUG05A	9,662	19OCT05	07AUG06	29	187	Closeout Smpg - Rem Wst Site - 600-47												
CMB0581C	Backfill - Rem	34	14AUG06A	17AUG06A	17,561	10AUG06	15AUG06	-1	-2	Backfill - Rem Wst Site - 600-47												
CMB0581E	Revegetation -	1	21DEC06A	28DEC06A	1,590	17AUG06	17AUG06	-69	-71	Revegetation - Rem Wst Site - 600-47												
<b>CMB0589 Remediate Waste Site - UPR-300-17</b>																						
CMB0589A	Excavation	5	14APR09	21APR09	557	21JAN08	28JAN08	-247	-247	Excavation Process - Rem Wst Site - UPR-300-17												
CMB0589B	Loadout - Rem	5	19MAY09	27MAY09	173	26FEB08	04MAR08	-247	-247	Loadout - Rem Wst Site - UPR-300-17												
CMB0589D	Closeout Smpg	159	28MAY09	16MAR10	613	05MAR08	16DEC08	-247	-247	Closeout Smpg - Rem Wst Site - UPR-300-17												
CMB0589C	Backfill - Rem	2	17MAR10	18MAR10	135	17DEC08	18DEC08	-247	-247	Backfill - Rem Wst Site - UPR-300-17												
CMB0589E	Revegetation -	1	22MAR10	22MAR10	22	22DEC08	22DEC08	-247	-247	Revegetation - Rem Wst Site - UPR-300-17												
<b>CMB0590 Remediate Waste Site - UPR-300-38</b>																						
CMB0590A	Excavation	41	21JUL08*	30SEP08	228,374	08OCT07*	19DEC07	-156	-156	Excavation Process - Rem Wst Site - UPR-300-38												
CMB0590B	Loadout - Rem	41	25AUG08	04NOV08	126,050	12NOV07	29JAN08	-156	-156	Loadout - Rem Wst Site - UPR-300-38												
CMB0590D	Closeout Smpg	159	05NOV08	24AUG09	72,090	30JAN08	10NOV08	-156	-156	Closeout Smpg - Rem Wst Site - UPR-300-38												
CMB0590C	Backfill - Rem	15	25AUG09	21SEP09	131,019	11NOV08	09DEC08	-156	-156	Backfill - Rem Wst Site - UPR-300-38												
CMB0590E	Revegetation -	3	22SEP09	24SEP09	4,978	10DEC08	15DEC08	-156	-156	Revegetation - Rem Wst Site - UPR-300-38												











Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
CMB0604E Revegetation -											Revegetation - Rem BG - 618-3											
CMB0605 Remediate Burial Ground - 618-7																						
CMB0605A	Excavation -	177	21MAY07*	08APR08	8,051,608	20MAR06*	09MAY07	-235	-182	Excavation - Rem BG - 618-7												
CMB0605B	Loadout - Rem	202	09APR08	13APR09	1,345,245	17APR06	07JUN07	-396	-368	Loadout - Rem BG - 618-7												
CMB0605D	Closeout Smpg	163	14APR09	04FEB10	457,823	11JUN07	26MAR08	-368	-372	Closeout Smpg - Rem BG - 618-7												
CMB0605C	Backfill - Rem	35	08FEB10	08APR10	308,648	27MAR08	20AUG08	-372	-325	Backfill - Rem BG - 618-7												
CMB0605E	Revegetation -	10	12APR10	27APR10	11,067	21AUG08	18SEP08	-325	-319	Revegetation - Rem BG - 618-7												
CMB0606 Remediate Burial Ground - 618-8																						
CMB0606A	Excavation -	91	29AUG05A	08NOV05A	351,277	02OCT06*	19MAR07	218	268	Excavation - Rem BG - 618-8												
CMB0606D	Closeout Smpg	159	05DEC05A	10AUG06A	249,970	17APR07	31JAN08	272	293	Closeout Smpg - Rem BG - 618-8												
CMB0606B	Loadout - Rem	91	29AUG05A	24AUG06A	992,395	30OCT06	16APR07	234	126	Loadout - Rem BG - 618-8												
CMB0606C	Backfill - Rem	34	24AUG06A	24AUG06A	120,859	04FEB08	01APR08	286	318	Backfill - Rem BG - 618-8												
CMB0606E	Revegetation -	7	21DEC06A	28DEC06A	5,274	21APR08	30APR08	264	268	Revegetation - Rem BG - 618-8												
CMR25 Fld. Rem.-300 Area Non Site Specific Support																						
0041.99902	TPA M-16-03H	0		29AUG05A	0		29JUN06*	167	167	TPA M-16-03H Comp RA 300 FF 1												
0041.99920	TPA M-16-61	0		27APR10*	0		31DEC08*	-264	-264	TPA M-16-61 Comp RA 300 FF 2												
CMR2501 Fld. Rem.-300 Area Non Site Specific Support																						
CMR2501A2	Fld. Rem.-300	199	03OCT05A	17MAY07	2,188,522	03OCT05	28SEP06	0	-126	Fld. Rem.-300 Area Non Site Specific Support												
CMR2501A3	Fld. Rem.-300	199	28SEP06A	27SEP07	1,749,192	02OCT06	27SEP07	1	0	Fld. Rem.-300 Area Non Site Specific Support												
CMR2501A5	Fld. Rem.-300	186	01OCT08	29SEP09	1,007,237	01OCT08	30SEP09	0	1	Fld. Rem.-300 Area Non Site Specific Support												
CMR2501A6	Fld. Rem.-300	200	30SEP09	29SEP10	726,179	01OCT09	30SEP10	1	1	Fld. Rem.-300 Area Non Site Specific Support												
CMR2501A7	Fld. Rem.-300	199	30SEP10	28SEP11	2,968,641	04OCT10	29SEP11	1	1	Fld. Rem.-300 Area Non Site Specific Support												
CMR2501A8	Fld. Rem.-300	199	29SEP11	26SEP12	4,158,440	03OCT11	27SEP12	1	1	Fld. Rem.-300 Area Non Site Specific Support												
<b>400 AREA</b>																						
<b>DD D4</b>																						
AEA0705 D4 Building - 4701B																						
AEA0705A	Plan &	30	01NOV11*	28DEC11	3,033	21NOV11	02APR12	11	52	Plan & Document - 4701B												
AEA0705B	Deact & Decom	5	28DEC11	05JAN12	20,498	18JAN12	08AUG12	11	120	Deact & Decom - 4701B												
AEA0705C	Demolition	5	09JAN12	16JAN12	19,908	09AUG12	01OCT12	120	144	Demolition Above Grade - 4701B												
AEA0705D	Demolition	5	17JAN12	24JAN12	786	02OCT12	18DEC12	144	182	Demolition Below Grade - 4701B												
AEA0705E	Loadout -	3	13MAR12	15MAR12	6,200	29OCT12	12FEB13	128	182	Loadout - 4701B												
AEA0705F	Transition/Final	20	19MAR12	19APR12	2,990	13FEB13	30APR13	182	205	Transition/Final Closure - 4701B												
AEA0706 D4 Building - 4701C																						
AEA0706A	Plan &	30	01NOV11	28DEC11	10,442	21NOV11	02APR12	11	52	Plan & Document - 4701C												
AEA0706B	Deact & Decom	5	28DEC11	05JAN12	30,567	18JAN12	08AUG12	11	120	Deact & Decom - 4701C												















Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16												
										Gantt Chart												
<b>CPA2201 Design Solution - 618-10 &amp; 11</b>																						
CPA2201B	Design Solution	284	03OCT05A	31JAN07A	195,090	29AUG05	31JAN07	-19	0	Design Solution for 618-11 Burial Ground												
C.2.2.2	600 Area	0		15JAN09*	0		31JAN07*	-713	-713	600 Area Remediation Design Solution - C.2.2.2												
CPA2201A	Design Solution	284	29AUG05A	15JAN09	195,090	29AUG05	31JAN07	0	-391	Design Solution for 618-10 Burial Ground												
C.2.2.2A	DOE Approve -	90	16JAN09	15APR09	0	01FEB07	01MAY07	-713	-713	DOE Approve - C.2.2.2												
<b>RA Field Remediation</b>																						
<b>CPA2301 Remediate Burial Ground 618-10</b>																						
CPA2301A	Excavation -	775	14NOV07*	03OCT11	5,643,165	20NOV08	08FEB12	204	69	Excavation - Rem BG - 618-10												
<b>CPA2401 Remediate Burial Ground 618-11</b>																						
CPA2401A	Excavation -	745	15JAN08*	03OCT11	5,930,897	20NOV08	08FEB12	174	69	Excavation - Rem BG - 618-11												
CPA2401C	Backfill - Rem	120	20MAR12	18OCT12	300,622	24APR12	27NOV12	20	20	Backfill - Rem BG - 618-11												
<b>CPR2501 Fld. Rem.-600 Area Non Site Specific Support</b>																						
CPR2501A1	Fld. Rem.-600	484	04MAY09*	03OCT11	4,414,250	01OCT08*	30SEP09	-116	-400	Fld. Rem.-600 Area Non Site Specific Support												
CPR2501A2	Fld. Rem.-600	200	04OCT10	03OCT11	8,988,189	01OCT09	30SEP10	-200	-200	Fld. Rem.-600 Area Non Site Specific Support												
CPR2501A3	Fld. Rem.-600	199	05OCT10	03OCT11	8,943,341	04OCT10	29SEP11	-1	-1	Fld. Rem.-600 Area Non Site Specific Support												
CPR2501A4	Fld. Rem.-600	199	04OCT11	01OCT12	8,232,030	03OCT11	27SEP12	-1	-1	Fld. Rem.-600 Area Non Site Specific Support												
CPR2501A5	Fld. Rem.-600	49	02OCT12	02JAN13	233,155	01OCT12	31DEC12	-1	-1	Fld. Rem.-600 Area Non Site Specific Support												
<b>SITE SITE</b>																						
<b>DE Remedial Design</b>																						
<b>CQA0101 Fld. Rem. - Miscellaneous Restoration Design</b>																						
CQA0101A	Design -	617	26MAR07	22APR10	0	29AUG05	29SEP08	-312	-312	Design - Miscellaneous Restoration Design												
<b>RA Field Remediation</b>																						
<b>CQR2501 Fld. Rem.-Misc Restoration Non Site Specific Sppt</b>																						
CQR0501A1	Fld. Rem.-Misc	19	01OCT07*	31OCT07	19,226	29AUG05	29SEP05	-417	-417	Fld. Rem.-Misc Restoration Non Site Specific Support												
CQR0501A2	Fld. Rem.-Misc	199	01OCT07*	25SEP08	203,133	03OCT05	28SEP06	-398	-398	Fld. Rem.-Misc Restoration Non Site Specific Support												
CQR0501A3	Fld. Rem.-Misc	201	01OCT07*	30SEP08	203,133	02OCT06	27SEP07	-199	-201	Fld. Rem.-Misc Restoration Non Site Specific Support												
CQR0501A4	Fld. Rem.-Misc	401	01OCT07	30SEP09	205,230	01OCT07	30SEP08	0	-200	Fld. Rem.-Misc Restoration Non Site Specific Support												
CQR0501A6	Fld. Rem.-Misc	199	04OCT10*	29SEP11	204,131	01OCT09	30SEP10	-200	-199	Fld. Rem.-Misc Restoration Non Site Specific Support												
CQR0501A7	Fld. Rem.-Misc	199	03OCT11	27SEP12	203,133	04OCT10	29SEP11	-199	-199	Fld. Rem.-Misc Restoration Non Site Specific Support												
CQR0501A8	Fld. Rem.-Misc	116	01OCT12	30APR13	203,133	03OCT11	27SEP12	-199	-116	Fld. Rem.-Misc Restoration Non Site Specific Support												
<b>FC Final Closure</b>																						
<b>EAA4001 ES/FC-Final Closure - Independent Closure Rvws</b>																						
E40.01.30M	TPA M-16-70	0	13OCT05A		0	27OCT05*		8	8	TPA M-16-70 Begin Smpg to Sppt 100/300 BL Risk												
E40.01.01	End State	57	03OCT05A	29DEC05A	173,142	29AUG05	08DEC05	-19	-10	End State Strategy												
C.2.2.1A	DOE Approve	30	01FEB06A	01FEB06A	0	27AUG05	25SEP05	-158	-129	DOE Approve C.2.2.1												
C.3.2.1A	DOE Approve	30	29DEC05A	01FEB06A	0	27AUG05	25SEP05	-124	-129	DOE Approve C.3.2.1												



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16											
										Gantt Chart											
C.3.2.1	Environ.	0		27FEB06A	0		26AUG05*	-185	-185	◆ Environ. Protection & Compliance Plan C.3.2.1											
N40.01.02	100-BC Pilot	175	29AUG05A	20APR06A	140,101	29AUG05	13JUL06	0	46	■ 100-BC Pilot Risk Assessment											
C.2.3.2	Integr RC WP	0		15MAY06A	0		30SEP06*	138	138	◆ Integr RC WP for a CERCLA B/L Risk Asmt C.2.3.2											
E40.01.04A	Interim Areas	345	15MAR06A	01FEB07A	119,976	17JAN07*	02OCT08	168	335	■ Interim Areas SAI/RSVP											
N40.01.06	Risk Integration	197	03OCT05A	13FEB07A	383,148	03OCT05*	26SEP06	0	-75	■ Risk Integration Work Plan											
C.2.3.2A	DOE Approve	16	26MAR07*	10APR07	0	01OCT06	29NOV06	-176	-132	■ DOE Approve C.2.3.2											
E40.01.09	Surface Soil	69	26OCT06A	12APR07	233,043	01OCT07*	24JAN08	184	156	■ Surface Soil DQO - Pilot											
N40.01.05	Columbia River	207	29SEP05A	30AUG07	578,399	29AUG05	11SEP06	-18	-195	■ Columbia River Component											
N40.01.03	100/300 Area	430	29AUG05A	25OCT07	4,364,563	29AUG05	22OCT07	0	-3	■ 100/300 Area Baseline Risk Assessment											
E40.01.11	Surface Soil	69	26OCT06A	07NOV07	155,338	02OCT08*	28JAN09	386	242	■ Surface Soil DQO - 100 Area											
E40.01.13	Surface Soil	69	26OCT06A	07NOV07	155,338	31AUG11*	22DEC11	967	823	■ Surface Soil DQO - 300 Area											
E40.01.15	Surface Soil	69	26OCT06A	07NOV07	155,338	02OCT08*	28JAN09	386	242	■ Surface Soil DQO - 400 Area											
E40.01.10	Surface Soil	118	16APR07	12NOV07	345,280	28JAN08	29JUL08	156	141	■ Surface Soil Survey - Pilot											
E40.01.04B	Interim Areas	266	16OCT06A	20FEB08	2,630,938	06OCT08	07APR09	394	226	■ Interim Areas Sampling											
N40.01.04C	Interim Areas	668	15MAR06A	20FEB08	781,000	17JAN07	18MAY10	168	449	■ Interim Areas Evaluation											
N40.01.07	Source Areas	224	25JAN10*	08MAR11	704,235	21APR10	28APR11	49	30	■ Source Areas Remedial Investigation Report											
N40.01.08	Source Area	190	02JUN10	12MAY11	110,027	30AUG10	08NOV11	49	99	■ Source Area Proposed Plan											
E40.01.17	Surface Soil	69	26OCT06A	06DEC12	155,338	15AUG12*	06DEC12	1,158	0	■ Surface Soil DQO - 600 Area											
E40.01.12	Surface Soil	103	24JUL12*	29JAN13	2,177,412	01NOV12*	09MAY13	57	57	■ Surface Soil Survey - 100 Area											
E40.01.14	Surface Soil	103	30OCT12*	07MAY13	762,471	20SEP12*	28MAR13	-22	-22	■ Surface Soil Survey - 300 Area											
E40.01.30H	Risk	200	01OCT12	30SEP13	108,678			0	0	■ Risk Assessment Direct Project Sup											
0041.99065	LT Stewardship	0		15OCT13*	0		29AUG13*	-25	-25	◆ LT Stewardship Plan Submittal											
EAA4101 ES/FC-Long-Term Stewardship																					
E41.01.01A	Charter Draft	149	03OCT05A	20MAR06A	27,863	03OCT05*	29JUN06	0	58	■ Charter Draft Long-Term Stewardship Plan											
E41.01.02	300 Area	106	20DEC05A	19JUL06A	18,899	03JAN06*	11JUL06	5	-5	■ 300 Area Complex Evaluation											
E41.01.20	300-FF-1	19	26MAR07*	25APR07	0	29AUG05*	29SEP05	-312	-312	■ 300-FF-1 Remedial Action Report											
E41.01.01B	Draft	249	13MAR06A	19JUN07	320,096	03JUL06	27SEP07	63	56	■ Draft Long-Term Stewardship Plan											
E41.01.07	100-BC-1	123	26MAR07*	30OCT07	105,482	02JAN07*	25SEP07	-46	-20	■ 100-BC-1 Remedial Action Report											
E41.01.22	Pilot	67	13NOV07	18MAR08	134,196	30JUL08	25NOV08	141	141	■ Pilot Independent Closure Review											
E41.01.30D	LTS Direct	199	01OCT07	25SEP08	64,526	01OCT07	29SEP08	0	1	■ LTS Direct Project Supt											
E41.01.09	100-FR-1	149	05JAN09*	28SEP09	105,482	29NOV12*	27AUG13	782	782	■ 100-FR-1 Remedial Action Report											
E41.01.10	100-FR-2	149	05JAN09	28SEP09	105,482	29NOV12	27AUG13	782	782	■ 100-FR-2 Remedial Action Report											
E41.01.30E	LTS Direct	200	29SEP08	28SEP09	64,188	30SEP08	29SEP09	1	1	■ LTS Direct Project Supt											
E41.01.08	100-BC-2	149	23APR09	21JAN10	105,482	29NOV12	27AUG13	720	720	■ 100-BC-2 Remedial Action Report											



Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16											
										Gantt Chart											
N42.01.04B	100-IU-6	92	10JAN07A	30AUG07	286,918	30MAY07*	17DEC07	78	58	100-IU-6 Orphan Sites- Field Walkdown											
N42.01.07A	100-K Orphan	84	22JAN07A	30AUG07	152,178	09MAY07*	07NOV07	61	38	100-K Orphan Sites- Hist Review											
N42.01.03C	100-IU-2	20	04SEP07*	08OCT07	62,200	24APR07	29MAY07	-73	-73	100-IU-2 Orphan Sites- Gap Analysis											
N42.01.04C	100-IU-6	57	04SEP07	08OCT07	62,626	18DEC07	24JAN08	58	58	100-IU-6 Orphan Sites- Gap Analysis											
N42.01.06B	100-H Orphan	48	04SEP07*	28NOV07	90,219	28JAN08*	08MAY08	78	89	100-H Orphan Sites- Field Walkdown											
N42.01.03D	100-IU-2	32	09OCT07	05DEC07	41,425	30MAY07	27SEP07	-73	-37	100-IU-2 Orphan Sites- Hist/Field Integration											
N42.01.04D	100-IU-6	69	09OCT07	05DEC07	41,777	28JAN08	22MAY08	58	93	100-IU-6 Orphan Sites- Hist/Field Integration											
N42.01.06C	100-H Orphan	20	29NOV07	08JAN08	54,708	12MAY08	12JUN08	89	88	100-H Orphan Sites- Gap Analysis											
N42.01.08A	100-N Orphan	75	01OCT07*	14FEB08	224,193	08NOV07*	12MAY08	23	48	100-N Orphan Sites- Hist Review											
N42.01.06D	100-H Orphan	32	09JAN08	05MAR08	35,411	16JUN08	23OCT08	88	130	100-H Orphan Sites- Hist/Field Integration											
N42.01.07B	100-K Orphan	55	28NOV07*	10MAR08	117,182	16JUN08*	05NOV08	109	135	100-K Orphan Sites- Field Walkdown											
N42.01.07C	100-K Orphan	20	11MAR08	14APR08	54,673	06NOV08*	10DEC08	135	133	100-K Orphan Sites- Gap Analysis											
N42.01.03E	100-IU-2	81	06DEC07	01MAY08	36,282	01OCT07	26FEB08	-37	-38	100-IU-2 Orphan Sites- Summary Report											
N42.01.04E	100-IU-6	118	06DEC07	01MAY08	36,556	27MAY08	16OCT08	93	93	100-IU-6 Orphan Sites- Summary Report											
N42.01.08B	100-N Orphan	48	11MAR08*	03JUN08	89,485	11DEC08*	30MAR09	153	163	100-N Orphan Sites- Field Walkdown											
N42.01.07D	100-K Orphan	32	15APR08	10JUN08	35,265	11DEC08*	23APR09	133	174	100-K Orphan Sites- Hist/Field Integration											
N42.01.08C	100-N Orphan	20	04JUN08	09JUL08	53,601	31MAR09	04MAY09	163	163	100-N Orphan Sites- Gap Analysis											
N42.01.06E	100-H Orphan	81	06MAR08	29JUL08	29,028	27OCT08	19MAR09	130	127	100-H Orphan Sites- Summary Report											
N42.01.08D	100-N Orphan	32	10JUL08	04SEP08	53,601	05MAY09	26OCT09	163	228	100-N Orphan Sites- Hist/Field Integration											
N42.01.12D	Data	199	01OCT07	25SEP08	92,535	01OCT07	29SEP08	0	1	Data Management											
N42.01.30C	Orphan Sites	199	01OCT07	25SEP08	284,080	01OCT07	29SEP08	0	1	Orphan Sites Direct Project Supt											
N42.02.01B	Interim Area	204	01OCT07*	06OCT08	753,246	01OCT07*	07APR09	0	99	Interim Area Orphan Sites- Hist Review											
N42.01.07E	100-K Orphan	81	11JUN08	03NOV08	31,217	27APR09	15SEP09	174	172	100-K Orphan Sites- Summary Report											
N42.01.10A	300-FF-2	106	13MAY08*	18NOV08	56,185	13MAY08*	06NOV08	0	-6	300-FF-2 Orphan Sites- Hist Review											
N42.01.08E	100-N Orphan	81	08SEP08	03FEB09	26,995	27OCT09	18MAR10	228	224	100-N Orphan Sites- Summary Report											
N42.01.11A	400 Area	102	10NOV08*	14MAY09	78,646	10NOV08*	07MAY09	0	-4	400 Area Orphan Sites- Hist Review											
N42.01.11B	400 Area	40	18MAY09	28JUL09	61,566	01APR10*	16JUN10	174	177	400 Area Orphan Sites- Field Walkdown											
N42.01.11C	400 Area	20	29JUL09	01SEP09	56,633	17JUN10	22JUL10	177	177	400 Area Orphan Sites- Gap Analysis											
N42.01.12E	Data	200	29SEP08	28SEP09	89,386	30SEP08	29SEP09	1	1	Data Management											
N42.01.30D	Orphan Sites	200	29SEP08	28SEP09	274,235	30SEP08	29SEP09	1	1	Orphan Sites Direct Project Supt											
N42.01.11D	400 Area	32	02SEP09	28OCT09	19,632	26JUL10	09NOV10	177	206	400 Area Orphan Sites- Hist/Field Integration											
N42.01.10B	300-FF-2	154	05MAY09*	10FEB10	190,615	05MAY09*	24FEB10	0	7	300-FF-2 Orphan Sites- Field Walkdown											
N42.01.10C	300-FF-2	20	11FEB10	18MAR10	229,997	25FEB10	31MAR10	7	7	300-FF-2 Orphan Sites- Gap Analysis											

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	Fiscal Year												
										FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
N42.01.11E	400 Area	81	29OCT09	30MAR10	29,330	10NOV10	04APR11	206	202													
N42.01.10D	300-FF-2	32	22MAR10	13MAY10	56,185	01APR10	22SEP10	7	72													
N42.01.12F	Data	201	29SEP09	29SEP10	89,386	30SEP09	30SEP10	1	1													
N42.01.30E	Orphan Sites	201	29SEP09	29SEP10	274,235	30SEP09	30SEP10	1	1													
N42.01.10E	300-FF-2	81	17MAY10	07OCT10	28,193	23SEP10	15FEB11	72	69													
N42.02.01A	Interim Area	764	30OCT06A	30MAR11	9,337,009	09JUL08	11JAN11	337	-44													
N42.02.01G	Interim Area	199	01APR10	30MAR11	4,598,965	13JAN10	11JAN11	-44	-44													
N42.01.12G	Data	199	30SEP10	28SEP11	89,386	04OCT10	29SEP11	1	1													
N42.01.30F	Orphan Sites	199	30SEP10	28SEP11	274,235	04OCT10	29SEP11	1	1													
N42.02.01C	Interim Area	528	07MAY09*	29DEC11	3,389,870	07OCT09*	06OCT11	84	-44													
N42.02.01D	Interim Area	80	03JAN12	22MAY12	376,689	10OCT11	27FEB12	-44	-49													
N42.02.01E	Interim Area	32	23MAY12	19JUL12	188,434	28FEB12	20NOV12	-49	69													
N42.01.30G	Orphan Sites	199	29SEP11	26SEP12	274,235	03OCT11	27SEP12	1	1													
N42.10.12H	Data	199	29SEP11	26SEP12	89,386	03OCT11	27SEP12	1	1													
N42.02.01F	Interim Area	81	23JUL12*	13DEC12	188,434	09JUL12*	26MAR13	-8	54													
<b>ESA2901 ES/FC-Management and Support</b>																						
ESA2901D	Management &	199	01OCT07	25SEP08	424,733	01OCT07	30SEP08	0	2													
ESA2901E	Management &	201	29SEP08	29SEP09	422,553	01OCT08	30SEP09	2	1													
ESA2901F	Management &	200	30SEP09	29SEP10	422,553	01OCT09	30SEP10	1	1													
ESA2901G	Management &	199	30SEP10	28SEP11	420,374	04OCT10	29SEP11	1	1													
ESA2901H	Management &	199	29SEP11	26SEP12	420,374	03OCT11	27SEP12	1	1													
ESA2901I	Management &	200	01OCT12	30SEP13	422,452	01OCT12	29AUG13	0	-16													
ESA2901J	Management &	9	01OCT13	15OCT13	19,012			0	0													
<b>MS MS/GS-Mission Support/General Support</b>																						
<b>FAA MS/GS-Project Integration</b>																						
C.4.1	Gov't-Furnished	0		15MAY06A	0		07FEB06*	-97	-97													
C.4.1A	DOE Approve	42	26MAR07	06MAY07	0	08FEB06	09MAR06	-411	-423													
<b>FAA01 MS/GS-Project Integration</b>																						
H.2	Human	0		05JUL05A	0		06JUL05*	1	1													
C.3.2.3	Quality	0		25JUL05A	0		26AUG05*	32	32													
C.3.2.5	Radiation	0		25JUL05A	0		26AUG05*	32	32													
E.1	Inspection	0		27JUL05A	0		26AUG05*	30	30													
C.3.2.6	Chronic	0		12AUG05A	0		26AUG05*	14	14													
E.1A	DOE Approve	30	16AUG05A	16AUG05A	0	27AUG05	25SEP05	11	40													

Activity ID	Activity Description	Duration	Early Start	Early Finish	Budgeted Cost	Baseline Early Start	Baseline Early Finish	Var ES	Var EF	FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16											
										Gantt Chart Area											
C.3.2.3A	DOE Approve	30	25JUL05A	18AUG05A	0	27AUG05	25SEP05	33	38	DOE Approve C.3.2.3											
C.6.1	Risk	0		19AUG05A	0		26AUG05*	7	7	Risk Management Approach C.6.1											
C.3.1_P1A	Transition	0		22AUG05A	0		26AUG05*	4	4	Transition SMSD After Award Ph I C.3.1											
C.7.2	MOA for	0		22AUG05A	0		26AUG05*	4	4	MOA for Safeguards & Security C.7.2											
C.7.4	MOA for RC	0		22AUG05A	0		26AUG05*	4	4	MOA for RC Physical Security Srvs C.7.4											
C.5.1	Project	0		25AUG05A	0		26AUG05*	1	1	Project Management Plan C.5.1											
C.5.3	Project	0		25AUG05A	0		26AUG05*	1	1	Project Baseline Change Control Process C.5.3											
C.5.4.1	Performance	0		25AUG05A	0		26AUG05*	1	1	Performance Mgmt System Description C.5.4.1											
C.3.2.5A	DOE Approve	30	26AUG05A	26AUG05A	0	27AUG05	25SEP05	1	30	DOE Approve C.3.2.5											
C.6.1A	DOE Approve	15	27AUG05A	02SEP05A	0	27AUG05	10SEP05	0	8	DOE Approve C.6.1											
C.7.2A	DOE Approve	15	27AUG05A	07SEP05A	0	27AUG05	10SEP05	0	3	DOE Approve C.7.2											
C.7.4A	DOE Approve	15	27AUG05A	07SEP05A	0	27AUG05	10SEP05	0	3	DOE Approve C.7.4											
H.20	Litigation	0		21SEP05A	0		05AUG05*	-47	-47	Litigation Management Plan H.20											
H.2A	DOE Review	15	07JUL05A	28SEP05A	0	07JUL05	21JUL05	0	-69	DOE Review H.2											
C.3.1_P1AA	DOE Approve	90	27AUG05A	30SEP05A	0	27AUG05	24NOV05	0	55	DOE Approve Transition ISMSD After Award C.3.1											
H.20A	DOE Approve	30	06AUG05A	05OCT05A	0	06AUG05	04SEP05	0	-31	DOE Approve H.20											
C.5.2	Project	0		22NOV05A	0		24NOV05*	2	2	Project Baseline C.5.2											
C.5.1A	DOE Approve	30	27AUG05A	02DEC05A	0	27AUG05	25SEP05	0	-68	DOE Approve C.5.1											
C.5.3A	DOE Approve	15	27AUG05A	02DEC05A	0	27AUG05	10SEP05	0	-83	DOE Approve C.5.3											
C.5.4.1A	DOE Approve	30	27AUG05A	02DEC05A	0	27AUG05	25SEP05	0	-68	DOE Approve C.5.4.1											
C.3.2.6A	DOE Approve	30	27AUG05A	16FEB06A	0	27AUG05	25SEP05	0	-144	DOE Approve C.3.2.6											
C.5.2A	DOE Approve	60	25NOV05A	22JUN06A	0	25NOV05	23JAN06	0	-150	DOE Approve C.5.2											
C.3.1_P1BA	DOE Appr Final	90	28FEB06A	05SEP06A	0	28FEB06	28MAY06	0	-100	DOE Appr Final ISMSD / Phase I Verif											
C.4.1FY07	GFSI Request	0	26MAR07*		0	17AUG06*		-221	-221	GFSI Request 45 in Advance FY07 C.4.1											
C.3.1_P2	ISMSD Ph II	0		03JUN07	0	29MAY06	22FEB07	-370	-100	ISMSD Ph II Verification											
C.4.1FY13	GFSI Request	0	01OCT13*		0	17AUG12*		-410	-410	GFSI Request 45 in Advance FY12 C.4.1											
FAA0101 MS/GS-Project Integration																					
FAA0101A9	MS/GS-Project	200	01OCT12	30SEP13	5,205,782	01OCT12	29AUG13	0	-16	MS/GS-Project Integration FY13											
FAA0101AA	MS/GS-Project	9	01OCT13	15OCT13	218,574			0	0	MS/GS-Project Integration FY14											
FBA0101 MS/GS-Project Services																					
FBA0101A9	MS/GS-Project	200	01OCT12	30SEP13	15,744,208	01OCT12	29AUG13	0	-16	MS/GS-Project Services FY13											
FBA0101AA	MS/GS-Project	9	01OCT13	15OCT13	760,977			0	0	MS/GS-Project Services FY14											
FCA0101 MS/GS-ESHQ																					
FCA0101A9	MS/GS-SHQ	200	01OCT12	30SEP13	9,017,131	01OCT12	29AUG13	0	-16	MS/GS-SHQ FY13											



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