

Utah Class III Landfill Permit Application Form

SW093

Part I General Information APPLICANT PLEASE COMPLETE ALL SECTIONS					
I. Landfill Type		II. Application Type		Facility Expansion Modification	
<input type="checkbox"/> Class IIIa <input checked="" type="checkbox"/> Class IIIb		<input type="checkbox"/> New Application <input checked="" type="checkbox"/> Renewal Application		<input type="checkbox"/> Facility Expansion <input type="checkbox"/> Modification	
For Renewal Applications, Facility Expansion Applications and Modifications Enter Current Permit Number <u>0004ARI</u>					
III. Facility Name and Location					
Legal Name of Facility ATK Launch Systems					
Site Address (street or directions to site) P.O. Box 707 M/S 301				County BoxElder	
City <u>Brigham City</u>		Zip Code <u>84302</u>		Telephone <u>801 251-2664</u>	
Township <u>11 N</u>	Range <u>5 W</u>	Section(s) <u>8</u>	Quarter/Quarter Section		Quarter Section
Main Gate Latitude degrees <u>41</u> minutes <u>41</u> seconds <u>38</u>		Longitude degrees <u>112</u> minutes <u>26</u> seconds <u>21</u>			
IV. Facility Owner(s) Information					
Legal Name of Facility Owner ATK launch Systems					
Address (mailing) P.O. 707					
City <u>Brigham City</u>		State <u>UT</u>	Zip Code <u>84302</u>	Telephone <u>801 251-2664</u>	
V. Facility Operator(s) Information					
Legal Name of Facility Operator ATK Launch Systems					
Address (mailing) P.O. Box 707					
City <u>Brigham City</u>		State <u>UT</u>	Zip Code <u>84302</u>	Telephone <u>801 251-2664</u>	
VI. Property Owner(s) Information					
Legal Name of Property Owner ATK Launch Systems					
Address (mailing) P.O. Box 707					
City <u>Brigham City</u>		State <u>UT</u>	Zip Code <u>84302</u>	Telephone <u>801 251-2664</u>	
VII. Contact Information					
Owner Contact <u>Dave Gosen</u>			Title <u>Director, Environmental Services</u>		
Address (mailing) P.O. Box 707					
City <u>Brigham City</u>		State <u>UT</u>	Zip Code <u>84302</u>	Telephone <u>801 251-2664</u>	
Email Address <u>dave.gosen@atk.com</u>			Alternative Telephone (cell or other) <u>801 699-0522</u>		
Operator Contact <u>Dave Gosen</u>			Title <u>Director, Environmental Services</u>		
Address (mailing) P.O. Box 707					
City <u>Brigham City</u>		State <u>UT</u>	Zip Code <u>84302</u>	Telephone <u>801 251-2664</u>	
Email Address <u>dave.gosen@atk.com</u>			Alternative Telephone (cell or other) <u>801 699-0522</u>		
Property Owner Contact <u>Dave Gosen</u>			Title <u>Director, Environmental Services</u>		
Address (mailing) P.O. Box 707					
City <u>Brigham City</u>		State <u>UT</u>	Zip Code <u>84302</u>	Telephone <u>801 251-2664</u>	
Email Address <u>dave.gosen@atk.com</u>			Alternative Telephone (cell or other) <u>801 699-0522</u>		

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Utah Division of Solid and Hazardous Waste Solid Waste Management Program

Mailing Address
P.C. Box 144880
Salt Lake City, Utah 84114-4880

Office Location
195 North 1950 West
Salt Lake City, Utah 84116

Phone (801) 536-0200
Fax (801) 536-0222
www.deq.utah.gov

APPLICATION FOR A PERMIT TO OPERATE A CLASS III LANDFILL

Please read the instructions that are found in the document, INSTRUCTIONS FOR APPLICATION FOR A PERMIT TO OPERATE A CLASS III LANDFILL. This application form shall be used for all Class III solid waste disposal facility permits and modifications. Part I, GENERAL INFORMATION, must accompany a permit application. Part II, APPLICATION CHECKLIST, is provided to assist applicants and, if included with the application, will assist review. Part II is provided to assist in preparation and review of a permit application, it is not rule. The text of the rule governs all permit application contents and should be consulted when questions arise.

Please note the version date of this form found on the lower right of the page; if you have received this form more than six months after this date it is recommended you contact our office at (801) 536-0200 to determine if this form is still current. When completed, please return this form and support documents, forms, drawings, and maps to:

Dennis R. Downs, Director
Division of Solid and Hazardous Waste
Utah Department of Environmental Quality
PO Box 144880
Salt Lake City, Utah 84114-4880

(Note: When the application is determined to be complete, submittal of two copies of the complete application will be required.)

Utah Class III Landfill Permit Application Form

Part I: General Information (Continued)																							
VIII. Waste Types (check all that apply)	IX. Facility Area																						
<input type="checkbox"/> All types of non-hazardous industrial waste generated by the facility OR the following specific waste types	Facility Area..... <u>72</u> acres																						
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Waste Type</th> <th style="text-align: center; border-bottom: 1px solid black;">Combined Disposal Unit</th> <th style="text-align: center; border-bottom: 1px solid black;">Monofill Unit</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> Construction & Demolition</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Industrial</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Incinerator Ash</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Animals</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Asbestos</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table>	Waste Type	Combined Disposal Unit	Monofill Unit	<input type="checkbox"/> Construction & Demolition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Incinerator Ash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Animals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Asbestos	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Other _____	<input type="checkbox"/>	<input type="checkbox"/>	Disposal Area..... <u>18</u> acres Design Capacity Years..... <u>30</u> Cubic Yards..... <u>603,393</u> Tons..... <u>301,696</u>	
Waste Type	Combined Disposal Unit	Monofill Unit																					
<input type="checkbox"/> Construction & Demolition	<input checked="" type="checkbox"/>	<input type="checkbox"/>																					
<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/>	<input type="checkbox"/>																					
<input type="checkbox"/> Incinerator Ash	<input checked="" type="checkbox"/>	<input type="checkbox"/>																					
<input type="checkbox"/> Animals	<input type="checkbox"/>	<input type="checkbox"/>																					
<input type="checkbox"/> Asbestos	<input checked="" type="checkbox"/>	<input type="checkbox"/>																					
<input type="checkbox"/> Other _____	<input type="checkbox"/>	<input type="checkbox"/>																					
Note: All waste types must be generated by the industry which owns the facility																							
X. Fee and Application Documents																							
Indicate Documents Attached To This Application <input type="checkbox"/> Application Fee: Amount \$																							
<input checked="" type="checkbox"/> Facility Map or Maps	<input checked="" type="checkbox"/> Facility Legal Description	<input checked="" type="checkbox"/> Plan of Operation																					
<input type="checkbox"/> Ground Water Report	<input checked="" type="checkbox"/> Closure Design	<input checked="" type="checkbox"/> Cost Estimates																					
		<input checked="" type="checkbox"/> Waste Description																					
		<input type="checkbox"/> Financial Assurance																					
I HEREBY CERTIFY THAT THIS INFORMATION AND ALL ATTACHED PAGES ARE CORRECT AND COMPLETE.																							
Signature of Authorized Owner Representative _____ Name typed or printed DAVID P. GOSEN	Title DIRECTOR	Date 6-8-2010																					
Address 70 BOX 707 BIRMGHAM CITY, UTAH 84302																							
Signature of Authorized Land Owner Representative (if applicable) _____ Name typed or printed	Title _____	Date _____																					
Address _____																							
Signature of Authorized Operator Representative (if applicable) _____ Name typed or printed	Title _____	Date _____																					
Address _____																							

Utah Class III Landfill Permit Application Checklist

Important Note: The following checklist is for the permit application and addresses only the requirements of the Division of Solid and Hazardous Waste. Other federal, state, or local agencies may have requirements that the facility must meet. The applicant is responsible to be informed of, and meet, any applicable requirements. Examples of these requirements may include obtaining a conditional use permit, a business license, or a storm water permit. The applicant is reminded that obtaining a permit under the *Solid Waste Permitting and Management Rules* does not exempt the facility from these other requirements.

An application for a permit to construct and operate a landfill is documentation that the landfill will be located, designed, constructed, operated, and closed in compliance with the requirements of Rules R315-304 of the *Utah Solid Waste Permitting and Management Rules* and the *Utah Solid and Hazardous Waste Act* (UCA 19-6-101 through 123). The application should be written to be understandable by regulatory agencies, landfill operators, and the general public. The application should also be written so that the landfill operator, after reading it, will be able to operate the landfill according to the requirements with a minimum of additional training.

Copies of the *Solid Waste Permitting and Management Rules*, the *Utah Solid and Hazardous Waste Act*, along with many other useful guidance documents can be obtained by contacting the Division of Solid and Hazardous Waste at 801-536-0200. Most of these documents are available on the Division's web page at www.hazardouswaste.utah.gov. Guidance documents can be found at the solid waste section portion of the web page.

When the application is determined to be complete, the original complete application and one copy of the complete application are required along with an electronic copy.

Part II Application Checklist

I. Facility General Information	
Description of Item	Location In Document
Ia. General Information For All Facilities	
Completed Part I General information	Pg. 1
General description of the facility (R315-310-3(1)(b))	Pg. 1
Legal description of property (R315-310-3(1)(c))	Pg. 1
Proof of ownership, lease agreement, or other mechanism (R315-310-3(1)(c))	Attachment 1
A demonstration that the landfill is not a commercial facility	Pg. 1
Waste type and anticipated daily volume (R315-310-3(1)(d))	Pg. 1
Intended schedule of construction (R315-302-2(2)(a))	N/A
Ib. General Information - New Or Laterally Expanding Class III Landfills	
Documentation that the facility has meet the historical survey requirement of R315-302-1(2)(f) (R315-304-4(1)(a) or R315-304-4(2)(a)(iv))	N/A
Name and address of ail property owners within 1000 feet of the facility boundary (R315-310-3(2)(i))	N/A
Documentation that a notice of intent to apply for a permit has been sent to all property owners listed above (R315-310-3(2)(ii))	N/A
Name of the local government with jurisdiction over the facility site (R315-310-3(2)(iii))	N/A

Utah Class III Landfill Permit Application Checklist

I. Facility General Information	
Description of Item	Location In Document
<i>c.</i> Location Standards - New Class IIIa Landfills (R315-304-4(1))	
Geology	
Geologic maps showing significant geologic features, faults, and unstable areas	N/A
Maps showing site soils	N/A
Surface water	N/A
Magnitude of 24 hour 25 year and 100 year storm events	N/A
Average annual rainfall	N/A
Maximum elevation of flood waters proximate to the facility	N/A
Maximum elevation of flood water from 100 year flood for waters proximate to the facility	N/A
Wetlands	N/A
Ground water	N/A
Historic Preservation Survey	N/A
<i>d.</i> Additional Location Standards - New Class IIIa Landfills Not On Waste Generation Site	
Land use compatibility (R315-304-4(1)(a))	
Maps showing the existing land use, topography, residences, parks, monuments, recreation areas or wilderness areas within 1000 feet of the site boundary	N/A
Certifications that no ecologically or scientifically significant areas or endangered species are present in site area	N/A
List of airports within five miles of facility and distance to each	N/A
<i>e.</i> Location Standards - New Class IIIb Landfills	
Floodplains as specified in R315-302-1(2)(c)(ii) (R315-304-4(2)(a)(i))	N/A
Wetlands as specified in R35-302-1(2)(d) (R315-304-4(2)(a)(ii))	N/A
The landfill is located so that the lowest level of waste is at least ten feet above the historical high level of ground water (R315-304-4(2)(a)(iii))	N/A
Historical Preservation Survey (R315-304-4(2)(a)(iv))	N/A
<i>f.</i> Plan of Operations - All Class III Landfills (R315-310-3(1)(e) and R315-302-2(2))	
Description of on-site waste handling procedures and an example of the form that will be used to record the weights or volumes of waste received (R315-302-2(2)(b) And R315-310-3(1)(f))	Pg.2
Schedule for conducting inspections and monitoring, and examples of the forms that will be used to record the results of the inspections and monitoring (R315-302-2(2)(c), R315-302-2(5)(a), and R315-310-3(1)(g))	Pg. 3 Attachment 2

Utah Class III Landfill Permit Application Checklist

I. Facility General Information	
Description of Item	Location In Document
Contingency plans in the event of a fire or explosion (R315-302-2(2)(d))	Pg. 3
Plan to control fugitive dust generated from roads, construction, general operations, and covering the waste (R315-302-2(2)(g))	Pg. 3
Plan for leachate control and collection (R315-302-2(2)(h))	Pg. 3
Procedures for excluding the receipt of prohibited hazardous or PCB containing wastes (R315-302-2(2)(j))	Pg. 3
Procedures for controlling disease vectors (R315-302-2(2)(k))	Pg. 4
A plan for alternative waste handling (R315-302-2(2)(l))	Pg. 4
A general training plan for site operations (R315-302-2(2)(o))	Pg. 4
Any recycling programs planned at the facility (R315-303-4(6))	Pg. 4
Any other site specific information pertaining to the plan of operation required by the Executive Secretary (R315-302-2(2)(p))	N/A
Ig. Ground Water Monitoring - Class IIIa landfills	
Ground Water Monitoring Plan (R315-304-5(4)(a))	N/A
II. Facility Technical Information	
IIa. Maps - All Class III Landfills	
Topographic map drawn to the required scale with contours showing the boundaries of the landfill unit, ground water monitoring well locations (if required), and the borrow and fill areas (R315-310-4(2)(a)(i))	Attachment 3
Most recent U.S. Geological Survey topographic map, 7-1/2 minute series, showing the waste facility boundary; the property boundary; surface drainage channels; any existing utilities and structures within one-fourth mile of the site; and the direction of the prevailing winds (R315-310-4(2)(a)(ii))	Attachment 3
IIb. Geohydrological Assessment - Class IIIa Landfills (R315-310-4(2)(b))	
Local and regional geology and hydrology including faults, unstable slopes and subsidence areas on site (R315-310-4(2)(b)(i))	N/A
Evaluation of bedrock and soil types and properties including permeability rates (R315-310-4(2)(b)(ii))	N/A
Depth to ground water (R315-310-4(2)(b)(iii))	N/A
Quantity, location, and construction of any private or public wells on-site or within 2,000 feet of the facility boundary (R315-310-4(2)(b)(v))	N/A
Tabulation of all water rights for ground water and surface water on-site and within 2,000 feet of the facility boundary (R315-310-4(2)(b)(vi))	N/A

Utah Class III Landfill Permit Application Checklist

I. Facility General Information	
Description of Item	Location In Document
Identification and description of all surface waters on-site and within one mile of the facility boundary (R315-310-4(2)(b)(vii))	Pg.5
For an existing facility, identification of impacts upon the ground water and surface water from leachate discharges (R315-310-4(2)(b)(viii))	Pg.5 Attachment 4
Calculation of site water balance (R315-310-4(2)(b)(ix))	N/A
IIc. Engineering Report - Plans, Specifications, And Calculations - All Class III Landfills	
Unit design to include cover design; fill methods; and elevation of final cover including plans and drawings signed and sealed by a professional engineer registered in the State of Utah, when required (R315-310-3(1)(b))	N/A
Design and location of run-on and run-off control systems (R315-310-5(2)(b))	N/A
IIId. Engineering Report - Plans, Specifications, And Calculations - Class IIIa Landfills	
Engineering reports required to meet the location standards of R315-304-4 including documentation of any demonstration or exemption made for any location standard (R315-310-4(2)(c)(i))	N/A
Anticipated facility life and the basis for calculating the facility's life (R315-310-4(2)(c)(ii))	N/A
Equipment requirements and availability (R315-310-4(2)(c)(iii))	N/A
Identification of borrow sources for daily and final cover and for soil liners (R315-310-4(2)(c)(iv))	N/A
Run-off treatment and disposal and documentation to show that any treatment system being used has been reviewed by the Division of Water Quality (R315-310-4(2)(c)(v) and R315-310-3(1)(i))	N/A
IIe. Closure Requirements - All Class III Landfills	
Closure plan (R315-310-3(1)(h))	Pg. 6
Closure schedule (R315-310-4(2)(d)(i))	N/A
Design of final cover (R315-310-4(2)(c)(iii))	N/A
Capacity of site in volume and tonnage (R315-310-4(2)(d)(ii))	N/A
Final inspection by regulatory agencies (R315-310-4(2)(d)(iii))	N/A
IIIf. Post-Closure Care Requirements - All Class III Landfills	
Post-closure care plan (R315-310-3(1)(h))	Pg. 6
Changes to record of title, land use, and zoning restrictions (R315-310-4(2)(e)(v))	Pg. 6
Maintenance activities to maintain cover and run-on/run-off control systems (R315-310-4(2)(e)(iii))	Pg. 7

Utah Class III Landfill Permit Application Checklist

I. Facility General Information	
Description of Item	Location in Document
List the name, address, and telephone number of the person or office to contact about the facility during the post-closure care period (R315-310-4(2)(e)(vi))	Pg. 7
IIg. Financial Assurance Requirements - All Class III Landfills	
Identification of closure costs including cost calculations (R315-310-4(2)(d)(iv))	Pg. 7 Attachment 5
Identification of post-closure care costs including cost calculations (R315-310-4(2)(e)(iv))	Pg. 7
Identification of the financial assurance mechanism that meets the requirements of Rule R315-309 and the date that the mechanism will become effective (R315-309-1(1) and R315-310-3(1)(j))	Pg. 7

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ATK LAUNCH SYSTEMS INC
CLASS IIIB PERMIT APPLICATION

PART II – GENERAL REPORT

1 General Information

General information – see page 1 of permit application (R315-310-3(1)(a))

General Description – ATK Launch Systems Inc (ATK) is located 24 miles west, northwest of Brigham City, Utah, in a sparsely populated portion of Box Elder County. The facility occupies 19,900 acres of semi arid high desert. Blue Creek, a low quality high TDS stream, runs along the western boundary of the facility. The facility has three separate landfill locations. The main landfill (M-336) is located near the center of the facility, and east of Blue Creek. The second site (M-136) is located east of the M-136 bum grounds. A third site (Rocky Point) is located approximately ½ mile south of M-136 and east of the in plant road, and is referred to as the “Rock Point” landfill.

Legal Description - The area surrounding the facility is zoned U1 (agriculture/grazing). The legal description along with longitude and latitude is included on the general arrangement, print number M336 G 1, M136-B and GP1 G 556 (R315-310-3(1)(c)).

2 **Proof of Ownership** -See Attached Quick Claim Deed, See Attachment 1,

Commercial Landfills – Solid waste is accepted only from ATK facilities or from Autoliv’s Promontory facilities located at the Promontory site. The facility Autoliv waste has been accepted at the facility since the split of Morton and Thiokol, as part of a continuing service agreement. In consideration of this effort, ATK receives a small fee to help offset the cost of handling their waste. ATK believes their landfill agreement with Autoliv does not meet the definition of a commercial landfill, and it should be regulated as a Class IIIB, non-commercial landfill.

Types of Waste - The types of waste received at the facility includes office, cafeteria, asbestos, open burning residue, and other non-hazardous industrial waste. The M-136 landfill only receives residue from open burning. The Rocky Point landfill receives large hardware such as rocket motor nozzles, cases and other miscellaneous large parts. M-336 landfill receives all other wastes, including office, cafeteria, manufacturing, etc (R315-310-3(1)(d)).

1b General Information – New or Laterally Expanding Class III landfills
Historical Survey - N/A

Name and Address of property Owners within 1000’ – N/A

Documentation of Intent to Apply – N/A

Local Government with jurisdiction over the facility -

Bear River Health Department – Lloyd Bertenzen, Executive Director,

Logan Mam Office

(435) 792-6500

655 East 1300 North

Logan, Utah 84341

1 Facility General Information

Ic Location Standards – New Class IIIA Landfills (R315-304-4(I) – N/A

The current Class IIIb landfill has been operated at the same location for over 30 years
This application is not for a new landfill but an application renewal to the existing
landfill location

Id Additional Location Standards – New Class IIIA landfills Not On Waste Generation Site – N/A

Land use Compatibility (R315-304-1(I)(a)) Current Class IIIb landfill is located on
site where waste is generated

Ie Location Standards – New Class IIIb Landfills The facility is classified as an
existing Class IIIb landfill – N/A

If: PLAN OF OPERATION – All Class III Landfills (R315-310-3(I)(e)

DESCRIPTION OF HANDLING PROCEDURES FOR TRASH OPERATIONS AT M336, M136 AND ROCKY POINT ATK LAUNCH SYSTEMS INC LANDFILLS

- 1 All landfill operations will be managed by trained operators, and in a safe manner consistent with State requirements. Trash quantities for the year will be estimated, based on actual yardage capacity of the trash truck. Tonnage for the annual report will be estimated using a conversion factor.
- 2 The landfills will be operated as a trench and fill landfills, digging a new trench for waste disposal as required. Cells, as they are closed will be covered with at least 24” of soil cover. Seeding will be provided as needed to enhance growth, upon closure of the facility.
- 3 Trash will be dumped into the cell and then transported to the face of the current cell using powered equipment assigned to the landfills. Compaction will be maximized by frequently traversing the face of the cell with metal tracked equipment.

- 4 Trash, which includes office and cafeteria waste, will be placed in the M-336 landfill, and will be covered daily with soil to minimize blowing, vectors, fires, odors and scavenging
- 5 Due to the nature of the waste placed in the M-136 landfill, (open burning residue) and the high berms around the trench to prevent movement of the Bum Grounds waste, daily cover to prevent movement of this material will not be required Both the M-136 and Rocky Point landfill will be covered as needed to prevent dust and fire hazards, and to prevent attraction of animals
- 6 Employees receive training to identify waste appropriate for our landfills A minimum of 10% of all dumpsters will be audited on an annual basis, to verify compliance with the waste disposal regulations
- 7 Surfaces of the landfills shall be contoured to reduce storm water run-on and run-off
- 8 Free liquids are prohibited from disposal at ATK Launch Systems Inc landfills
- 9 Unauthorized personnel (public, untrained contractors, etc) are not allowed on the facility property, and do not have access to the landfills Landfill entrances are locked from Thursday afternoon until Monday morning Access, when locked, is through Plant Security after obtaining appropriate clearance

Inspection schedule and form – Inspections will be conducted once a month by the assigned landfills operator Inspection results will be reported on form number FQA-0235 checklist (see attached 2) Records will be maintained in the Environmental Service's central files for three years Letter Control and Collection is completed by a Parameter fence line inspection, operators perform this monthly and debris is removed as needed

Contingency Plan - Contingency plan is included as part of our Emergency and Disaster Response Plan This plan can be found at the Fire Department, Security Office, and other selected locations throughout the plant The Contingency Plan is also included as an appendix to our Part B Permit on file with DEQ

Contingency Plan for other releases – Covered above

Fugitive dust control – Primary interior landfills roads will be sprayed with magnesium chloride as needed to control dust Soil stock piled for use as cover is predominately moist and will not contribute substantially to fugitive dust A water truck will be used for operations that generate significant quantities of dust

Installed equipment maintenance – NA

Procedures for excluding prohibited waste – Written policies are in place that prohibit onsite land disposal of any type of hazardous or PCB containing waste A hazardous waste dock coordinator manages all waste generating areas on plant These coordinators are extensively trained in solid and hazardous waste regulations, and have a good knowledge of what can, and cannot go into our onsite landfills In addition to these

precautions, the landfill operators also make periodic random inspections of the dumpsters to assure no unauthorized waste is accepted. An inspection form titled "Trash Bin Audit" as seen in attachment II. This form is used to track the results of dumpster inspections looking for inappropriate waste disposal practices.

Controlling disease vectors – A small amount of biological waste generated at the Medical Services area is disposed at M-336. This waste is placed in puncture proof containers, and is immediately buried upon placement. These practices minimize the potential hazard associated with these disease vectors. Living vectors are minimized by covering trash and keeping buildings clean and orderly.

Alternative waste handling – On occasion when equipment breakdown prevents picking up and disposing of our trash, the facility will utilize an outside contractor to handle trash pickup. When this occurs, the contractor may haul the waste to the M-336 landfill, or to an off-site landfill.

Training and Safety – All landfill workers receive training on safety training prior to performing unsupervised work. This training includes site-specific information found in SOPs (Standard Operating Procedures), as well as utilization of general training from the Solid Waste Association of North America. Safety Policies and Procedures can be found in "the "General Safety and Health Manual", on the ATK Web. Operators also receive training on landfill permit requirements. SOP and landfill permits training are both documented in a computer tracking system referred to as My Learning.

Recycling Program – The facility maintains a recycling program that consists of metal, cardboard and paper recycling,

Security – The landfill sites are located within a fenced facility with roving 24 hour armed guards. Only authorized personnel are allowed within the facility. In addition to this security, the landfills are fenced with locked gates on weekends.

Cell design - landfill cell designs will comply with all R315 requirements. Drawing numbers M136/M336-C shows a typical cross section of the cell, including clay liner and cover.

Run-on and run-off control - Each open cell is surrounded by large berms to prevent surface waters from running into or out of the cells. The lower landfills are designed with a low area to collect run-off and hold for evaporation. The M-136 landfill is constructed on a hill. Water inside the bermed area stays within the cell, while all water outside the berm follows the natural storm channel. The Rocky Point landfill will be graded as needed to minimize run-on and run-off.

1g Corrective action Program for ground water contamination – NA

Signage - Each landfills site is identified with a sign at the entrance.

Fire protection - ATK maintains a fire station at the facility. Emergency assistance, including fire control, can be summoned using a cell phone by dialing (435) 863-2222.

II Facility technical Information

IIa Maps – ATK Promontory Class IIIb Landfills – See Attachment 3

IIb Geohydrological Assessment – Class IIIa landfill (R315-310-4 (2)(b)) - N/A

1 Facility General Information

Identification of Surface Water

All three landfill units are located in the Blue Spring Valley which is bounded on the east by the Blue Spring Hills and on the west by Engineer Mountain and the Promontory Mountain ranges. Within the Blue Spring Valley, the terrain is characterized by topography that slopes down from the mountain crest at an elevation of approximately 6,050 feet above mean sea level (AMSL) toward the center of the Blue Creek Valley at an elevation of 4,250 feet AMSL. As a result, the surrounding environment extending out to 6.2 miles (10 kilometers) from the landfill units can be characterized as complex terrain. Blue Creek surface stream flows down the center of the valley west of the current landfill locations and continues south of the plant on private land.

HYDROGEOLOGY - Ground water in Blue Creek Valley occurs under unconfined and confined conditions. These two conditions exist in fractured and faulted bedrock, lake clays and gravels, unconsolidated alluvium, gravel, and sandy deposits. Precipitation, surface water infiltration, and plant discharges that infiltrate into sediments may migrate slowly, vertically, and horizontally to form perched water tables above the 50- 150-foot depth of the regional water zone. The perched ground water may eventually migrate to the deeper regional system. The regional system ranges from 50- 600 feet in depth depending on the topographical location. Blue Creek may recharge shallow aquifers in the center of the Blue Creek Valley. The direction of movement within the faulted and fractured bedrock will be controlled by the connection of faults and fractures. Regionally, the ground water flow trend is from north to south. Depth to groundwater at the M-136 treatment units is an average 300 feet.

The ground water quality in Blue Creek Valley is generally poor due to naturally occurring chlorides and total dissolved solids. Levels of dissolved solids range from 400 to over 12,000 mg/l. Quality of ground water depends upon the sediments which it has contacted. Quality is quite good in local, up gradient areas of water recharge, but degrades rapidly as it moves from mountain to the valley axis. High levels of total dissolved solids in lowland areas are probably due to slow migration through tertiary sediments. Down gradient from the sites, quality deteriorates rapidly as it enters the mudflats of the Great Salt Lake. Post Closure Corrective Action Plan dated September 20th 2007 monitors the landfill location as part of that plan. Current monitoring does not show contamination from landfill activity.

IIC Engineering Report – Plans, Specifications, and Calculations- All Class III Landfills – N/A

The current Class IIIb landfill units have been operated at the same location for over 30 years. This application is not for a new landfill or expanded landfill, but an application renewal to the existing landfill location.

IId Engineering Report – Plans, Specifications, And Calculations – Class IIIA landfills – N/A

IIE Closure Requirements – All Class III landfills

CLOSURE PLAN

Closure Schedule – When a cell is filled, it is capped with 24 inches of compacted native soil with a permeability of approximately 1.76×10^{-7} cm/sec. This soil includes six inches of topsoil, which is placed over the compacted soil to complete the cover. The topsoil will be seeded using a mix of grasses similar to the native vegetation as needed. It is estimated that at current generation levels and management practices, ATK Launch Systems Inc. landfills will receive waste until the year 2,035.

Cover Design – See drawing M136/M336-C

Site Capacity – Based on an estimated life of 30 years, our total capacity is 603,393 Cubic Yards.

Remaining permitted landfills area is 18.7 acres x average landfills depth of 20' = 603,393 cubic yards. $603,393 \text{ cubic yards} / 10,000 \text{ cubic yards/year} = 60 \text{ years}$. 50% of this space is taken up by soil cover and space between cells which equates to a total life expectancy of 30 years. Changes in waste generation volume and recycling efforts could significantly increase the landfills life expectancy.

Final Inspection – Within 30 days after completion of closure activities, the State will be contacted to request the final inspection. Any required modifications will be completed within 30 days, and a re-inspection requested. Once closure is completed to the satisfaction of the Division of Solid and Hazardous Waste, post-closure care will begin.

POST CLOSURE CARE PLAN

Post Closure Care Plan – Reference Post Closure Corrective Action Plan submitted to the DSHW. Dated September 20th 2007.

Changes to record of title, etc – Changes in land ownership which would affect the property title will be reported to the State in a timely manner. Other changes, like land use or zoning restrictions will also be reported.

Maintenance – Since ground water monitoring and leachate collection is not required, the only maintenance needs will be cover and drainage preservation. Inspections will be performed monthly and repairs made as needed. The working face size is minimized, which reduces exposure and the quantity of soil needed to cover the exposed face.

Approach and Exit Roads - The ATK Launch Systems Inc landfills are located entirely within a secured facility. Therefore, we do not experience traffic separation and control problems common to a public landfills.

Facility General Information

Contact for Post Closure Care

ATK Launch Systems Inc
Environmental Services
P O Box 707 M/S 301
Brigham City, UT 84302-0707
(801) 251-2664

FINANCIAL ASSURANCE

Closure Cost Estimate – See attached for calculated costs. Our Financial Assurance documents are on file with the DEQ Hazardous Waste Section as part of our Part B permit as required by EPA.

Post Closure Care Cost – Post Closure Costs can also be seen in the Part B Permit, Closure Costs are updated annually. See Attachment 5.

Financial Assurance Mechanism – Letter of Credit

49

05-004-0011, 0017 ✓
0018, 0059 ✓

05-221 0002 ✓

Contract No GS-01-D-95-CA-C-0136

QUITCLAIM DEED

088914 Bk 0612 Pg 0053
LuAnn Adams, Box Elder County Recorder
12/20/1995 3 17pm FEE 3,147 00 Dep PJ
Rep'd For THIOKOL CORP

KNOW ALL MEN BY THESE PRESENTS, that the UNITED STATES OF AMERICA,
acting by and through the Administrator of General Services, under and pursuant to the powers
and authority contained in the provisions of the Federal Property and Administrative Services
Act of 1949, 63 Stat 377, as amended and the regulations and orders promulgated thereunder,
hereinafter called the "Grantor," for and in consideration of the sum of SIX MILLION FOUR
HUNDRED FIFTY THOUSAND DOLLARS (\$6,450,000 00), the receipt of which is hereby
acknowledged, does hereby REMISE, RELEASE and FOREVER QUITCLAIM, without
warranty or representation, express or implied, unto THIOKOL CORPORATION, a Delaware
Corporation, 2475 Washington Boulevard, Ogden, Utah 84401-2398, hereinafter called the
"Grantee," its successors and assigns forever, all such right and title as the Grantor has or ought
to have, in the real property in Box Elder County and in the State of Utah, commonly known as
"Air Force Plant 78," herein referred to as "the property," and legally described as follows

All that real property lying in Township 11 North, Range 5 West
of the Salt Lake Meridian containing 1515 16 acres, and more
particularly described as

- ✓ a All of Section 9, containing 648 07 acres
- b That portion of Section 4, described as follows

Beginning at the Southeast corner of Section 4, thence

- ✓ (1) South 89° 52' 11" West 5270 68 feet to the Southwest corner of Section 4, thence
- (2) North 0° 22' 48" West 5200 26 feet, thence
- (3) East 1960 69 feet, thence
- (4) South 47° 42' 53" East 2710 77 feet, thence
- (5) South 33° 33' 02" East 1117 58 feet, thence
- (6) South 64° 37' 36" East 766 62 feet, thence
- (7) South 0° 46' 51" East 2104 62 feet to a point, said point being the true point of beginning
Containing 509 93 acres

- c That portion of Section 5, described as follows
- ✓ Beginning at a point which bears North 89° 51' 11" East 3789 85 feet from the Southwest corner of Section 5, thence
- (1) North 5203 51 feet, thence
 - (2) East 1441 05 feet, thence
 - (3) South 0° 22' 48" East 5200 26 feet to the Southeast corner of Section 5, thence

(4) South 89° 52' 11" West 1475 55 feet to a point
being the true point of beginning
Containing 174 15 acres

082914 Bk 0612 Pg 0054

d That portion of Section 8, described as follows

Beginning at a point which bears North 89° 52' 11"
East 3789 85 feet from the Northwest corner of
Section 8, thence

- (1) North 89° 51' 11" East 1475 55 feet to the
Northeast corner of Section 8, thence
- (2) South 0° 16' 43" East 5360 87 feet to the
Southeast corner of Section 8, thence
- (3) North 89° 56' 07" West 1501 63 feet, thence
- (4) North 5355 75 feet to a point, said point being
the true point of beginning

Containing 183 01 acres

Together with buildings and improvements thereon and subject to the following reservations,
easements, terms and conditions

1 ~~SUBJECT TO EXISTING EASEMENTS AND RESTRICTIONS~~ The property is hereby
conveyed subject to any and all existing reservations easements, restrictions, and rights,
recorded and unrecorded for private and public roads, highways, streets, pipelines, railroads,
utilities, water lines, sewer mains and lines, drainage, power lines, and other rights-of-way,
including but not limited to the specific easements, restrictions, reservations, rights, and
covenants described below

2 ~~EASEMENTS AND RESERVATIONS~~ (All sections and lots mentioned in this paragraph
are in Township 11 North, Range 5 West of the Salt Lake Meridian)

a In Section 4, the North Half of the Southwest Quarter, and the Southwest Quarter of
the Southwest Quarter, and the South Half of the Northwest Quarter, and Lots 3 and 4 are subject
to reservations by the State of Utah and the United States of any easement or rights-of-way of the
public for all such highways as may have been established according to law, and to all rights-of-
way for ditches, tunnels, and telephone and transmission lines that may have been constructed by
authority of the United States

b. In Section 4, the North Half of the Southeast Quarter, the Southwest Quarter of the
Southeast Quarter, the Southeast Quarter of the Southwest Quarter, Lots 1 and 2, and the South
Half of the Northeast Quarter are subject to the reservation of any vested and accrued water
rights for mining, agricultural, manufacturing or other purposes, and rights to ditches and

reservoirs used in connection with such water rights as may be recognized and acknowledged by the local customs, laws, and decisions of courts, and also subject to the right of the proprietor of a vein or lode to extract and remove his ore therefrom should the same be found to penetrate or intersect the aforementioned premises as provided by law. And there is also reserved from said lands a right-of-way for ditches or canals constructed by the authority of the United States.

c Sections 5, 8, and 9 are subject to the reservation by the United States of all mineral lands should any be found to exist in the aforesaid tracts, but this reservation shall not be construed to include any coal or iron lands.

d The Utah Power and Light Company has a perpetual easement and right-of-way for the erection and continued maintenance, repair, alteration, and replacement of electric and telephone transmission and distribution lines as recorded March 21, 1961, as Entry No. 75181G in Book 145, page 614 of Box Elder County Records. This easement is described as follows:

Beginning on the South boundary line of land now or formerly owned by Thiokol Chemical Corporation at a point 1500 feet from the Southeast corner of Section 8, thence North 34 degrees 57 minutes West, 14.5 feet thence North 10,547 feet to the north boundary line of the lands now or formerly owned by said Thiokol Chemical Corporation and being in the West Half of the East Half of said Section 8, and in the West Half of the Southeast Quarter and the Southwest Quarter of the Northeast Quarter and Lot 2 of Section 5.

3 RESERVATION OF RIGHTS-OF-WAY FOR TREATY COMPLIANCE Grantor reserves, for itself and parties it may designate, rights of ingress to, and egress from, Buildings M689 and M-689A, together with rights to enter and inspect all parts of said building as may be necessary to determine whether the Grantor or any contractor of Grantor is complying with the Strategic Arms Reduction Treaty.

4 DEFENSE PRODUCTION CAPABILITY For a period of five years from the date of conveyance Grantee, its successors and assigns will preserve the existing capability of this property for use in the performance of contracts entered into with Grantor and all branches of Service of the United States Armed Forces, and utilization of such property by the Grantee, its successors and assigns for other purposes will not jeopardize its capability to meet military requirements during the five-year period.

5 DISCLOSURE OF CONDITIONS Based upon information available to the United States Air Force (Air Force) on the basis of a complete search of its files, the attached Environmental Matters Agreement and its appendices ("Exhibit A"), made a part hereof, notifies Grantee about the hazardous substances, as defined in CERCLA, 42 U S C § 9601 (14), that were stored for one year or more, or are known to have been released or disposed of on the property. Such notification includes information regarding the type and quantity of the hazardous substances, the time at which such storage, release or disposal took place, and a description of any remedial action taken and/or to be taken as required by 42 U S C § 9620(h) (3)(A). The Air Force and/or its agents shall have reasonable access to the property to perform any remedial action required of the Air Force after the date of conveyance herein as provided by 42 U S C § 9620 (h)(3)(C).

6 NOTICE OF THE PRESENCE OF ASBESTOS The property contains asbestos containing materials that are believed to be nonfriable. **WARNING!**

a The Grantee is warned that the property contains asbestos. Asbestos is a hazardous material. Unprotected exposure to asbestos fibers has been determined to significantly increase the risk of cancer, mesothelioma, and asbestosis. These diseases can cause serious bodily harm resulting in disability or death.

b The Grantee acknowledges that it was invited, urged, and cautioned to inspect the property prior to tendering its Offer to Purchase. More particularly, the Grantee was invited, urged, and cautioned to inspect the property as to its asbestos content and any hazardous or environmental conditions relating thereto, and the Grantor assisted Grantee in obtaining any authorization(s) which may have been required in order to carry out any such inspection(s). The Grantee is deemed to have relied solely on its own judgment in assessing the overall condition of all or any portion of the property, including any asbestos hazards or concerns.

c Except for warranties required by statutes and/or regulations of the United States, no warranties, either express or implied, are given with regard to the condition of the property including, without limitation, whether the property does or does not contain asbestos or is or is not safe for a particular purpose.

d The description of the property set forth in this Quitclaim Deed and any other information provided therein with respect to said property is based on the best information available to the General Services Administration and is believed to be correct, but any error or omission

including, but not limited to, the agency having custody over the property and/or any other Federal agency, shall not constitute grounds or reason for any claim by the Grantee against the Grantor including, without limitation, any claim for allowance, refund, or deduction from the purchase price

e Nothing contained in this Quitclaim Deed shall be construed to impose upon the Grantor any liability for damages for personal injury, illness, disability, or death to the Grantee or to the Grantee's successors, assigns, employees, invitees, or any other person subject to Grantee's control or direction or to any other person, including members of the general public, arising from or incident to the purchase, transportation, removal, handling, use, disposition, or other activity causing or leading to contact of any kind whatsoever with asbestos on the property which is the subject of this Quitclaim Deed whether the Grantee, its successors, or assigns has or have wanted or failed to properly warn the individual(s) injured.

f The Grantee further agrees that, in its use and occupancy of the property, it will comply with all Federal, state, and local laws relating to asbestos

7 NOTICE OF THE POSSIBLE PRESENCE OF LEAD-BASED PAINT The Grantee is informed that the property includes improvements that are duly presumed to contain lead-based paint because they are thought or known to have been constructed before 1978. The hazards of lead-based paint are often presented in dust, paint chips, or surfaces upon which lead-based paint has been applied. High concentrations of lead in the body can damage the brain, nervous system, kidneys, or hearing, affecting learning and coordination, cause behavioral problems, blindness, and even death, and cause problems in pregnancy and fetal development. Lead is especially hazardous to children of less than seven (7) years of age.

The Grantee acknowledges that it was invited, urged, and cautioned to inspect the property to be sold prior to submitting its Offer to Purchase. More particularly, the Grantee was invited, urged, and cautioned to inspect the property as to its lead-based paint content and condition and any hazardous or environmental conditions relating thereto, and that the Grantor assisted the Grantee in obtaining any authorization(s) which may have been required in order to have carried out any such inspection(s). The Grantee shall be deemed to have relied solely on its own judgment in assessing the overall condition of all or any portion of the property, including, without limitation, any lead-based paint hazards or concerns.

Lead-based paint poisoning prevention In order to insure that the requirements imposed by Title 24 C F R Part 35 are met for use of the property for residential habitation or use of the property by children under seven(7) years of age, the following provisions are hereby included in this Quitclaim Deed.

a The Grantee shall remove all lead-based paint hazards and all potential lead-based paint hazards from the property and shall certify to the Grantor (in form acceptable to the General Services Administration) and the Grantor will determine, through its inspection (or at its discretion, the inspection and certification of a local government official) that all lead-based paint hazards have been removed from the property in accordance with Title 24 C F R 35 24 (b)(11) prior to the use of the property for residential habitation or use of the property by children under seven (7) years of age, to the extent required by statutes or regulations of the United States.

b The Grantee understands and agrees that the Grantor's inspection and finding of satisfactory performance is not intended to and does not constitute a guarantee that all lead-based paint hazards and potential lead-based paint hazards have been eliminated from the property and does not relieve the Grantee of the responsibility for complying with applicable State and local lead-based paint laws and regulations

c The Grantee agrees to indemnify the Grantor from any liability arising by reason of the Grantee's failure to perform its obligations under this agreement with respect to elimination of immediate lead-based paint health hazards, the prohibition against the use of lead-based paint, and the Grantee's responsibility for complying with applicable State and local lead-based paint laws and regulations

d To the fullest extent permitted by law and equity, these covenants shall be binding for the benefit and in favor of and be enforceable by the Grantor and by its successors in office The Grantor and its successors in office shall be entitled to institute legal action to enforce performance and observance of these covenants, enjoin acts which are violative of these covenants, and exercise any other legal or equitable right or remedy with respect to these covenants These rights and remedies may be exercised separately or in combination

e Following compliance with the covenants set forth in a above, upon request of the Grantee, its successors, assigns, or purchasers for value, the Grantor shall execute a recordable

document acknowledging that these covenants have been terminated and are of no further force or effect

f If the Grantee fails to comply with a above, the Grantor will not exercise the rights reserved in d above if any lender secured by the property gives written notice to the Grantor that it intends to complete the rehabilitation required by a above, and completes such rehabilitation within 30 days from the date of the notice, or within such longer period as the Grantor may approve in writing

8 CONDITION OF PROPERTY Subject to the conditions referenced in paragraphs 5 through 7 above, the property is offered "as is" and "where is" without representation, warranty, or guarantee as to quality, quantity, character, condition, size, or kind, or that the same is in condition or fit to be used for the purpose for which it is intended and no claim for any allowance or deduction upon such grounds will be considered

9 NON-DISCRIMINATION The Grantee covenants for itself, its successors and assigns and every successor in interest to the property hereby conveyed, or any part thereof, that the said Grantee and such successors and assigns shall not discriminate upon the basis of race, color, sex, religion, or national origin in the use, occupancy, sale or lease of the property, or in their employment practices conducted thereon. This covenant shall not apply, however, to the lease or rental of a room or rooms within a family dwelling unit, nor shall it apply with respect to religion to premises used primarily for religious purposes. The Grantor shall be deemed a beneficiary of this covenant without regard to whether it remains the owner of any land or interest therein in the locality of the property hereby conveyed and shall have the sole right to enforce this covenant in any court of competent jurisdiction

10 EXCESS PROFITS This covenant shall run with the land for a period of three years from the date of execution of this Deed. With respect to the property described herein, if at any time within the three-year period from the date of conveyance of title by the Grantor, the Grantee or its successors or assigns, shall sell or enter into agreements to sell the property, either in a single transaction or in a series of transactions, it is covenanted and agreed that all proceeds received or to be received in excess of the Grantee's or a subsequent seller's actual allowable costs will be remitted to the Grantor. In the event of a sale of less than the entire property, actual allowable costs will be apportioned to the property sold based on a fair and reasonable determination by the Grantor

For purposes of this covenant, the Grantee's or a subsequent seller's allowable costs shall include the purchase price of acquiring this property and the direct costs actually incurred and paid for physical improvements on the subject property for the following

a Improvements on the property which serve only that property, including road construction, storm and sanitary sewer construction, other public facilities or utility construction, building rehabilitation and demolition, landscaping, grading, and other site or public improvements,

b Design and engineering services with respect to the improvements described in a above, provided, however, that none of these costs or the costs described in a above, will be allowable if defrayed by Federal grants or if used as matching funds to secure Federal grants

In order to verify compliance with the terms and conditions of this covenant, the Grantee, or its successors or assigns, shall submit an annual report for each of the subsequent three years to the Government on the anniversary date of the Deed. Each report will identify the property involved in the transaction, indicate the sale price of any property resold, the purchaser and the proposed land use, and enumerate any allowable costs incurred for physical improvements on the property that would offset any profit realized. If no resale has been made, the report shall so state. Failure to file timely reports will extend the operation of the covenant for an additional one-year period for each late or omitted report. The Grantor may monitor the property involved and inspect records related thereto to ensure compliance with the terms and conditions of this covenant and may take any actions which it deems reasonable and prudent to recover any excess profits realized through the resale of the property.

11 NOTICE OF AND RIGHT TO INSPECT, REMOVE, AND ACQUIRE INDIAN

ARTIFACTS Grantee, its successor and assigns shall protect any and all American Indian artifacts that may be on the property or that may be discovered incidental to excavations on the property. Written notice of the presence of such artifacts shall be given to the

Chairman, Northwestern Bank of the Shoshoni Nation
695 South Main Street, Suite 6
Brigham City, Utah 84302, and to the

Director, Utah Division of Indian Affairs
324 South State Street, Suite 103
Salt Lake City, Utah 84114

The Northwestern Band of the Shoshoni Nation and the Utah Division of Indian Affairs shall also be permitted to inspect and remove such artifacts and, if requested by said Nation or Division, ownership of said artifacts shall be conveyed to said Nation or Division

Said conditions of this instrument shall extend to and be binding upon and shall inure to the benefit of the successors and assigns of the Grantee

Said property was duly declared surplus and assigned to the Administrator of General Services for disposal pursuant to the provisions of the above-cited Property Act and orders and regulations promulgated thereunder

TO HAVE AND TO HOLD the property sold and conveyed hereunder to the Grantee, its successors and assigns forever

IN WITNESS WHEREOF, the UNITED STATES OF AMERICA acting by and through the Administrator of General Services, has caused these presents to be duly executed for and in its name and behalf by Dennis R. Spearman, Director, Midwest Branch, Property Disposal Division, General Services Administration, Chicago, Illinois, who has this 24TH day of NOVEMBER, 1995, hereunto set his hand and seal

Witnesses

Paul J. Murphy
Brenda A. Howard

UNITED STATES OF AMERICA
Acting by and through the
Administrator of General Services

By Dennis R. Spearman
DENNIS R. SPEARMAN
Director, Midwest Branch
Property Disposal Division
General Services Administration
Chicago, Illinois

STATE OF ILLINOIS)
) ss
COUNTY OF COOK)

I Joel D. Malkin, a Notary Public in and for the State of Illinois, do hereby certify that Dennis R. Spearman personally known to me to be the Director, Midwest Branch, Property Disposal Division, General Services Administration, Chicago, Illinois, appeared before me this day in person and acknowledged that he, being thereunto duly authorized, signed and delivered the said instrument as the free and voluntary act and deed of the United States of America, the Administrator of General Services and his own free and voluntary act and deed for the uses and purposes therein set forth

GIVEN under my hand and notarial seal this 7th day of November, 1995



Joel D. Malkin
JOEL D MALKIN
Notary Public
My Commission Expires 4/26/97

This instrument was prepared by Joel D. Malkin, Attorney, General Services Administration,
230 South Dearborn Street, Chicago, Illinois 60604

CERTIFICATE

I, Joel D Malkin, Certifying Attorney, General Services Administration, Region 5, Chicago, Illinois, do hereby certify that authority for conducting the business of the Midwest Branch, Property Disposal Division, General Services Administration, has been delegated to the Regional Administrator, Region I, by the Administrator of General Services pursuant to the authority vested in said Administrator by the Federal Property and Administrative Services Act of 1949, Public Law 152, 81st Congress, approved June 30, 1949 and other applicable laws and regulations promulgated thereunder, and redelegated to the Director, Midwest Branch, Property Disposal Division, pursuant to the said laws and regulations

I further certify that Dennis R Spearman is Director, Midwest Branch, Property Disposal Division, General Services Administration, Chicago, Illinois, effective as of this date

Date at Chicago, Illinois, this 24th day of November, 1995


JOEL D MALKIN
Certifying Attorney
General Services Administration
Chicago, Illinois

PLANT 78 ENVIRONMENTAL MATTERS AGREEMENT

WHEREAS the United States Government, through the Department of the Air Force (hereafter referred to as 'U S " or the ' Government"), and Thiokol Corporation (Thiokol), a Delaware Corporation, located at 2475 Washington Boulevard, Ogden, Utah, 84401, enter into this Agreement, effective upon the date of property conveyance, in connection with the sale of the property known as Air Force Plant 78 located in Box Elder County, Utah, Tract No 100, Township 11 North, Range 5 West, Salt Lake Base and Meridian, as more specifically described in the Agreement of Sale, dated 24 Nov 1995

NOW THEREFORE, for good and valuable consideration the United States Government, as owner and "Seller" of the property known as Air Force Plant 78 and Thiokol Corporation, as "Buyer" of the property, agree as follows

PART A: DEFINITIONS

' Air Force Plant 78" or "Facility" or "Facilities" or "Property" shall mean any or all of the Government property, including personal and real property and improvements thereon, Industrial Plant Equipment (IPE) and Other Government Plant Equipment (OPE), described in the Agreement of Sale and Attachments thereto

' Contaminant" shall mean any (a) petroleum or petroleum products, or derivative or fraction thereof, flammable material, explosives radioactive materials (including radon gas, other than that which is naturally occurring), asbestos in any form that is or could become friable, urea formaldehyde foam ("UFI"), and polychlorinated biphenyls ("PCBs") and (b) any chemical, material or substance, (i) which is now or hereafter becomes defined as or included in the definition of "hazardous substances", "extremely hazardous substances", "hazardous wastes", "hazardous materials", "hazardous constituents", "toxic substances", restricted hazardous wastes", "contaminants" "pollutants", or words of similar import under any applicable Environmental Laws or (ii) the emission discharge, release, storage transport, disposal, management handling or use of which is regulated under or subject to any Environmental Laws or which in the future may be regulated or subject to Environmental Laws

"Effective Date" shall mean the date the last necessary signatures for the legal conveyance of the facility are obtained

"Environmental Compliance Costs" shall mean those costs and expenditures necessary to ensure, maintain or achieve compliance with Environmental Laws

"Environmental Claim" shall mean any accusation, allegation, notice of violation, claim, demand, abatement, suit, or other order or directive (conditional or otherwise), judgment, lien or other assessment by any governmental authority, public or private organization, institution, corporate entity or any person for personal injury (including sickness, disease or death), tangible or intangible property damage, damage to the environment, nuisance, pollution, contamination or other adverse effects on human health or the environment, or for response costs, fines or penalties, judgments, liens, or costs, including attorney's fees, resulting from or based upon (i) the existence, or the continuation of the existence, of an Environmental Release (including, without limitation, sudden or nonsudden, accidental or non-accidental leaks or spills), of, or exposure to, any Contaminant into the Environment at, in, by, or from the Facility, (ii) the violation, or alleged violation, of any Environmental Laws at the Facilities.

"Environmental Laws" shall mean any or all federal, state and local laws, statutes, ordinances and regulations, now or hereafter in effect, and in each case as amended or supplemented from time to time including common law or equitable claims based upon, but not limited to, theories of trespass, nuisance, or tort, including, without limitation, any applicable judicial order, consent decree, judgment, license, or permit relating to the regulation and protection of human health, safety, or the Environment. Environmental Laws include, but are not limited to, the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended (42 U S C § 9601 et seq)(CERCLA), the Hazardous Material Transportation Act, as amended (42 U S C § 1801 et seq)(HMTA), the Federal Insecticide, Fungicide, and Rodenticide Act, as amended (7 U S C § 136 et seq), The Solid Waste Disposal Act (SWDA) also known as the Resource Conservation and Recovery Act, as amended (42 U S C § 6901 et seq), the Clean Air Act, as amended (42 U S C § 740 et seq), the Federal Water Pollution Control Act, as amended (33 U S C § 1251 et seq), The Toxic Substances Control Act, as amended (15 U S C § 2601 et seq) and Safe Drinking Water Act, as amended (42 U S C § 300f et seq), and any and all regulations promulgated thereunder, and all analogous state and local counterparts, equivalents, or similar statutes or ordinances, rules or regulations, and any future Federal, State or Local laws or regulations as they may apply to employee safety, human health, or the environment, generally.

"Environmental Release" shall mean any release, spill, emission, abandonment of any container or receptacle containing any Contaminant, leaking, pumping, injection, deposit, dumping, disposal, discharge, dispersal, leaching or migration into the Environment, or into or out of any of the Facilities, including the

movement or migration, gradual or otherwise, or any Contaminant through or in the air, soil, surface water, ground water, or land surface or subsurface strata or formation or any transportation of any contaminant or hazardous material environmental pollution

"Seller" or "Former Owner" shall mean the United States Air Force, Headquarters Air Force Materiel Command, Aeronautical Systems Center, acting through its agent, General Services Administration (GSA)

"Contracting Officer" shall mean one or more persons with the authority to modify, administer, and/or terminate this Agreement on behalf of Seller and make determinations and findings. Contracting Officers for this Agreement, herein after referred to as Contracting Officer, shall be persons appointed in accordance with FAR 1 603. The Administering Contracting Officer (ACO) is that person responsible for administering this Agreement

PART B AGREEMENT

I SCOPE OF AGREEMENT, IDENTIFICATION OF THE PARTIES This Agreement describes the rights and obligations of the Parties for operational environmental compliance, and remediation of existing and future contamination at, near, or around the Facility, after the Effective Date of the purchase and sale of the Facility. This Agreement describes all rights, responsibilities and obligations of the Parties. This Agreement is meant to be a final settlement of liability for the purposes herein, as between the parties, under Environmental Laws insofar as the conditions of the Facility exist on the Effective Date. The Parties do not retain any residual rights other than as described in this Agreement. The Parties covenant and agree that Seller is not arranging for disposal of any articles, items, containers, structures, contaminants at, or on the Facility including all equipment as described in the purchase or sale agreement. The Parties covenant and agree that they shall bring no actions under common law, including but not limited to trespass, tort, or nuisance, or under the Contract Disputes Act, or under Federal Acquisition Regulations based on any Armed Services Procurement Regulation (ASPR), Defense Acquisition Regulation (DAR) or Federal Acquisition Regulation (FAR) clause or authority in any prior or existing contract between the parties including, but not limited to clauses which are incorporated by reference, those which appear in full text, and those may otherwise be applicable, for damages or redress of any kind, or for any amount, based upon an Environmental Release or Claim. This Agreement is entered into with the understanding that the Facility, as herein described, is concomitantly being transferred from the United States Air Force, acting through its agent, General Services Administration (Seller), to Thiokol Corp (Thiokol). The promises, guarantees, warrants and covenants in this Agreement survive the purchase and sale of the Facility, and shall remain in full force and effect after Thiokol becomes the owner of the Facility, and, further, they shall be binding on the successors, agents, assignees, future owners, or interest holders of Thiokol.

II ENVIRONMENTAL CONDITION OF THE FACILITY The Parties agree that the Environmental Condition of the Facility is reflected in the Remedial Investigation and Feasibility Study (RI/FS) as documented and amended under the Air Force Installation Restoration Program (IRP), and Environmental Baseline Study incorporated herein as Appendices A and B, respectively. Furthermore, Appendix C is a list of Solid Waste Management Units (SWMUs) listed on the current RCRA Subtitle C Treatment, Storage and Disposal permit for Thiokol. For the purposes of this Agreement these constitute the known sites of contamination on Plant 78 as of the date of sale of the facility. Thiokol covenants and agrees it shall continue corrective actions on Sites of SWMUs being cleaned currently by Thiokol to Utah RCRA standards as described in Appendix C through satisfactory completion of Closure and Post Closure care as required.

under current and future Permits and Federal, State and Local Solid and Hazardous waste laws and regulations

III. THIOKOL OWNER/OPERATOR, PERMITS Upon completion of the purchase and sale and execution of the deed in favor of Thiokol, Thiokol shall become the legal owner and operator of the Facility as that term is defined in Environmental Laws. No later than 60 days prior to the Deed being executed Thiokol shall notify all Federal, State and local environmental permitting and regulatory authorities and promptly accomplish any and all necessary permit modifications to accurately reflect the change in ownership. As of the Effective Date, Thiokol hereby agrees to be considered the current owner and operator for any and all purposes as construed by Environmental Laws, including all requirements of outstanding compliance orders, if any. Thiokol shall identify itself as the "owner" and/or "operator" on all such permits, licenses, and documentation and, when required by Environmental Laws, the United States Air Force, Aeronautical Systems Center, Directorate of Acquisition Environmental Management, (ASC/EM) or such other name as may be directed in writing by the Seller, as former owner, where required. Buyer shall prepare all permit applications or other documents requiring signature by the Seller as former owner and shall make a good faith attempt to submit them to ASC/EM not less than 45 days before they must be filed with the permitting authority. For applications on which buyer believes Seller may have an interest, Buyer shall make a good faith attempt to submit them for coordination with ASC/EM 30 days before they must be submitted to the regulatory agency.

IV. STATUTORY CLEANUP OBLIGATIONS The parties recognize that CERCLA (42 U.S.C.A. §§ 9601 et seq) and RCRA (42 U.S.C.A. §§ 6901 et seq), and their State law counterparts impose certain legal requirements upon current and former owners and operators of facilities which generated, stored, treated and/or disposed of hazardous wastes and/or substances as those terms may be defined in Federal, State and Local laws and regulations. Except as otherwise may be provided in this Agreement, the legal obligations of the parties to duly authorized regulatory authorities, regarding activities or events which occurred prior to the purchase of the facility by Thiokol, remain unaffected.

a. Thiokol agrees it has been the operator, as that term is, or may be defined in Environmental Laws of the facility. As operator of the Facility Thiokol agrees it is a covered person as that term is defined at CERCLA § 107(a), 42 U.S.C. § 9607(a). Thiokol further also agrees that it will become the owner of the Facility as that term is described in Environmental Laws upon execution and delivery of the deed. Thiokol shall be liable for all Environmental Claims resulting from Environmental Releases or

environmental noncompliances at the Facility which occurs after the Effective Date

b Seller acknowledges it has been the "owner" of the Facility as that term is defined under Environmental Laws Accordingly, Seller agrees it is a covered person as that term is defined at CERCLA § 107(a), 42 U.S.C. 9607(a) Moreover, seller recognizes its obligations as the owner of a potentially contaminated federal facility under CERCLA § 120, 42 U.S.C. § 9620

c In accordance with CERCLA § 120 ((h)(3)(A) and (C)), Seller must, in the manner described therein, provide notice of the type and quantity of hazardous substances which may have been stored, released or disposed of on the Facility property prior to the transfer of ownership To this end, Thiokol agrees to fully cooperate in providing detailed, accurate information as to all prior activities it has engaged in where any spills or releases of hazardous substances, wastes or constituents to any media, may have occurred on the Facility

d To the extent such information is available on the basis of a complete search of Seller's files, the deed transferring ownership of the Facility shall contain

(1) a notice of the type and quantity of such hazardous substances,

(2) notice of the time at which such storage, release, or disposal took place, and

(3) a description of the remedial action, if any

The Parties agree to accept this information, and the information described in Section II above as meeting the CERCLA § 120 information requirements As required by CERCLA, the deed shall also contain a clause granting the United States access to the property in any case in which remedial action or corrective action is found to be necessary after the date of transfer The right of future access to the Facility by the United States shall in no way be interpreted by Thiokol as a warranty of future response or removal action by the United States.

V SHARING OF HISTORICAL CLEANUP COSTS The parties agree that approximately \$1.4M (one million, four hundred thousand dollars) has been spent by the United States to date under the Air Force Installation Restoration (IRP) Program The parties further agree that these costs were duly incurred on

activities which were and are consistent with the National Contingency Plan (NCP), 40 CFR 300 et seq. The parties further agree that they shall share the incurred costs for any remediation, response, removal or cleanup required by CERCLA with regard to any spill or Release on Plant 78 occurring prior to the effective date 50%/50%, in recognition of the "owner" and "operator" status (as those terms are defined in CERCLA), of the parties in relation to activities occurring on Plant 78. The amount of the identified costs to be shared 50%/50% may be reduced if either Party identifies, serves notice to and collects contributory costs from Other Parties who are for purposes of CERCLA, other potentially responsible Parties at the Facility. In that event, the amount to be shared by Thiokol and the Air Force shall be reduced pro tanto based upon the amount collected from Other Parties. In recognition of Thiokol's acknowledgment of its past and future CERCLA responsibilities, as herein described, and the expeditious settlement of Historical Cleanup Costs as achieved by this Agreement, the Air Force accepts \$500,000.00 (five hundred thousand dollars), as full and complete satisfaction of Thiokol's obligations under this Section V.

VI RESPONSIBILITY FOR FUTURE CLEANUP COSTS. Thiokol indemnifies and holds harmless Seller for all Environmental Releases, Claims and Compliance Costs associated with remediation, response, removal or cleanup of spills, releases of any Contaminants, or other actions such as asbestos or lead paint abatement occurring after the Effective Date.

VII FUTURE CLEANUP OF PRE-PURCHASE RELEASES. In the event cleanup is required by a Federal, State, Local authority, other entity or person for historical contamination not addressable under RCRA or its State or Local counterparts, in connection with remediation of an Environmental Release, Thiokol has the burden of proving, by clear and convincing evidence, that the release occurred prior to the date of sale of the Facility. Except in cases of bona fide emergencies where removal action is required by a regulatory order, in those cases where Thiokol can show, by clear and convincing evidence, that the spill or release occurred during a time when the Air Force owned Plant 78, the Air Force reserves its right to respond to the contamination and share costs, if so incurs, 50%/50% with Thiokol in the manner described in Section V above.

VIII PRIOR CONSENT OF SELLER REQUIRED. In any case contemplated by Sections V and VII (not including situations requiring emergency removal action), where future remedial action is required, Thiokol agrees to first seek and obtain the consent of Seller prior to incurring expenses related to the investigation, study, design and/or remediation of any contamination of the Facility. To the extent Seller must share in future remediation costs, nothing in this Agreement shall be construed or deemed to require Seller to obligate funds in violation of the

Anti-Deficiency Act, 31 U.S.C. §§ 1341 et seq., the Adequacy of Appropriations Act, 41 U.S.C. § 11, or any other applicable statute or regulation. The ability of Seller to obtain funds for obligations under this Section is expressly predicated upon Congress' timely appropriation of the necessary funds. Nothing in this Agreement should be construed by Thiokol as an assurance that Congress will appropriate funds in an amount sufficient for Seller to meet its obligations under this Section.

IN WITNESS WHEREOF, the parties hereto have each executed this Agreement on behalf of the United States Government and Buyer, respectively,

THIOKOL CORPORATION UNITED STATES OF AMERICA

By *Harold Lyman*

By: *James A. Hecht*

Title. *Vice President, Contracts*

Acting Deputy Assistant Secretary
Title, of the Air Force (ESOH)

Date: *28 November 1995*

Date. *9/22/95*

Appendices

- A Remedial Investigation and Feasibility Study
- B Environmental Baseline Study
- C Solid Waste Management Units [Compliance and Remediation Projects]

2- Example of
Waste Record Form



- Types
- Custom
- Tables
- Forms
- Queries
- SQL
- Reports
- Scripts
- Libraries
- Data Models
- String Lists
- INI's

ATK LAUNCH SYSTEMS - PROMONTORY

LANDFILL LOG 'Daily' OPERATING RECORD

Thursday November 05 2009

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Activity Summary



Total No Loads: 20
Total Qty (cy): 240

Data Received 10/27/2009

EMP-ID#	Last Name	First Name	CYC	Building	Description	No. Loads	Qty.	UM	Disposal Site	Cell ID
	Kneels	Frank	0202	W007	ASBES 103 MID DEBRIS	5	15	CF	ASBES 103 INDUSTRIAL 1FE4CH	AA29
	Mendellaw	Joseph	0201	PLANT	COMMON TRASH	2	36	CY	LANDFILL	LT 12
	Mendellaw	Joseph	0201	T021	DIRT	1	10	CY	LANDFILL	LF 12
	Mendellaw	Joseph	0201	T023	ASPHALT AND DIRT	12	180	CY	LANDFILL	LT 13

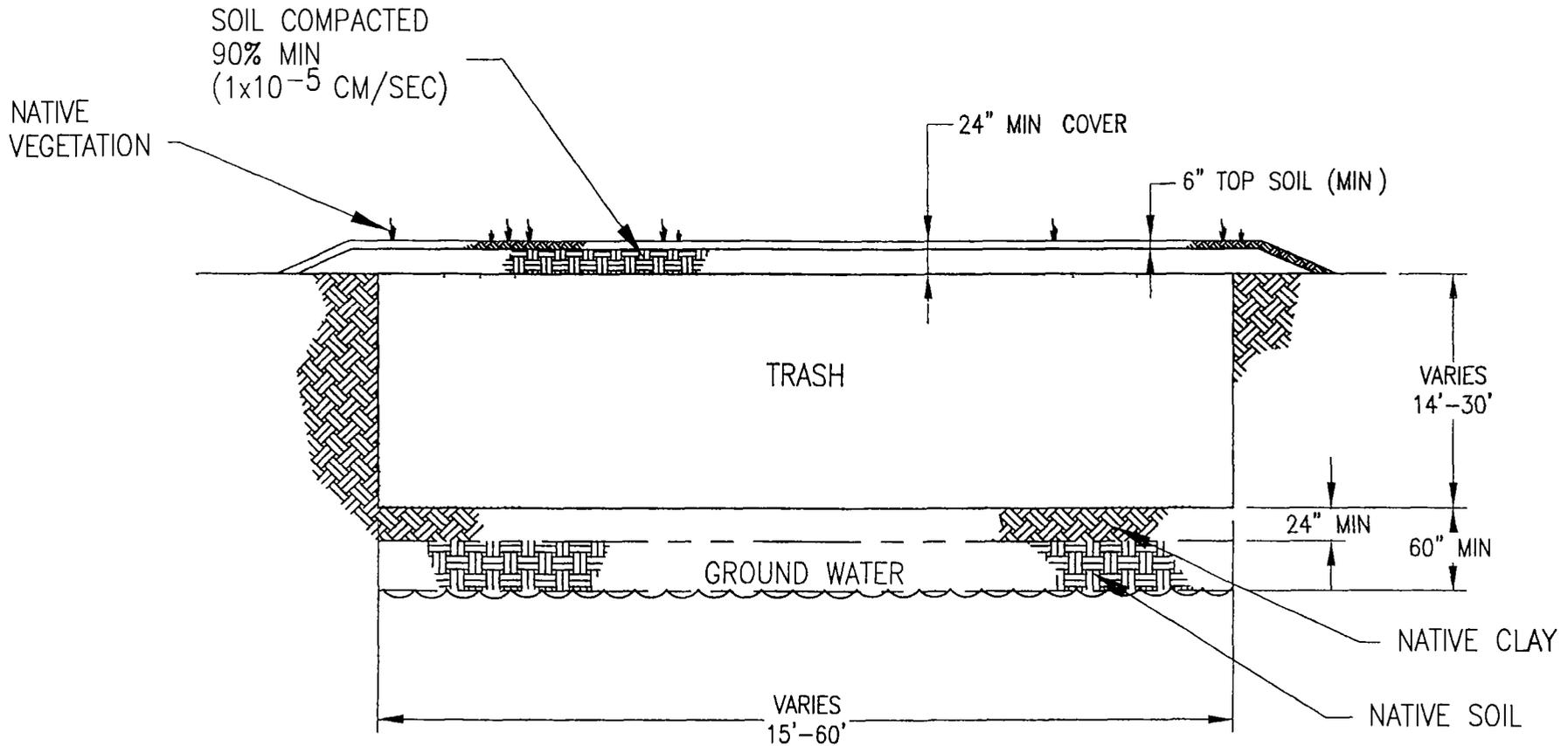
Cover Placement / Certification
(6" Earthen Material)



EMP-ID#	Last Name	First Name	Cell ID	Area Covered	Amount of Cover	UM
	Mendellaw	Joseph	AA 29	CENTER WORKING FACE	20	CY
	Mendellaw	Joseph	LT 13	NORTHSIDE WORKING FACE	50	CY

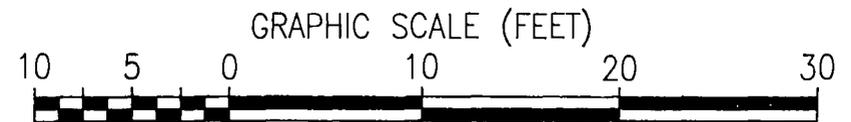
Comments

3- Landfill Drawing



NOTES

- 1 CELL IS TO HAVE A 2' MINIMUM OF CLAY EARTH AT BOTTOM OF TRENCH
- 2 BOTTOM OF CELL SHALL BE 5' MIN ABOVE GROUND WATER
- 3 CELL IS TO HAVE NO MORE THAN 2% MAX SLOPE IN LENGTH OF TRENCH
- 4 COMPACTED TRASH WILL BE COVERED WITH 2' MIN SOIL, INCLUDING 6" OF TOP SOIL
- 5 CLOSED CELL SHALL BE RESEEDED WITH NATIVE VEGETATION

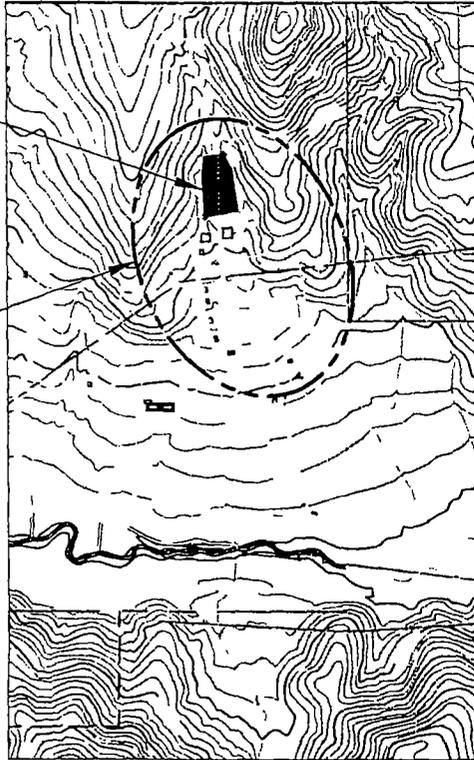


Q \ FACILITY \ RELEASE \ GEN \ M136G41 DWG

<p>SCALE 1" = 10' ±</p>	<p>ATK ALLIANT TECHSYSTEMS</p> <p>THIOKOL INC. FACILITIES ENGINEERING P O Box 707 ms 552 Brigham City, Utah 84302</p>
<p>DATE 3FEB2005</p>	<p>TYP SECTION OF LANDFILL TRENCHES, M-136/M-336</p>
<p>M136-C</p>	<p></p>

INDUSTRIAL
LANDFILL

SEE ENLARGED VIEW
ON DWG M136-B



SCALE 7 1/2 MINUTE

Q\FACILITY\RELEASE\GEN\M136G41 DWG



THIOKOL INC.
FACILITIES ENGINEERING
P O Box 707 ms 552
Bingham City, Utah 84302

DATE
3FEB2005

M136-A

INDUSTRIAL
LANDFILL

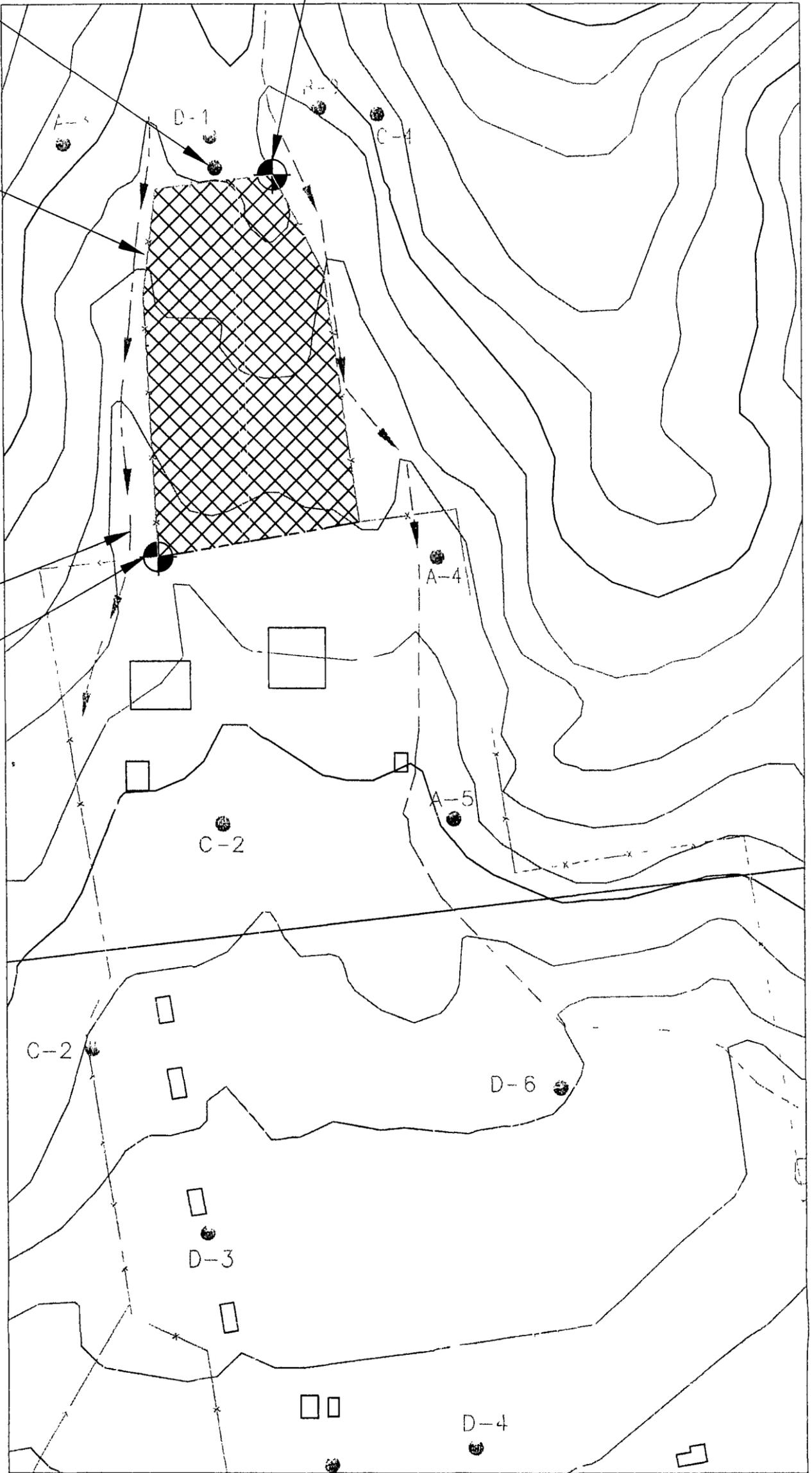
SOUTH EAST CORNER OF INDUSTRIAL LANFILL
 LAT 112° 25' 35.26"
 LONG 41° 41' 10.04"

MONITOR WELL (TYPICAL)

FENCE FROM EDGE OF DRAINAGE TO 5' FROM CLOSEST MONITOR WELL

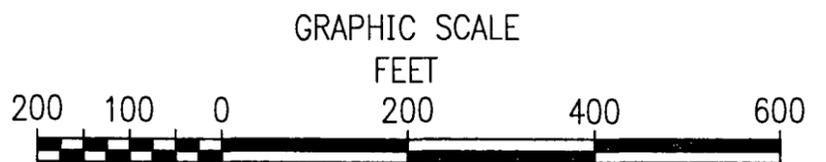
DRAINAGE (TYP)

POINT #1
 NORTH WEST CORNER OF INDUSTRIAL LANFILL
 LAT 112° 25' 43.61"
 LONG 41° 41' 12.08"



INDUSTRIAL LANDFILL DESCRIPTION
 BEGINNING AT POINT #1

- 1) N 86° 57' 14" 437.70'
- 2) S 77° 13' 58" 177.82'
- 3) S 6° 41' 50" 190.71'
- 4) S 64° 43' 23" 177.16'
- 5) S 82° 3' 4" 416.29'
- 6) N 10° 2' 39" 345.54'



Q:\FACILITY\RELEASE\GEN\M136G41.DWG



THIOKOL INC
 FACILITIES ENGINEERING
 P O Box 707 ms 552
 Bingham City, Utah 84302

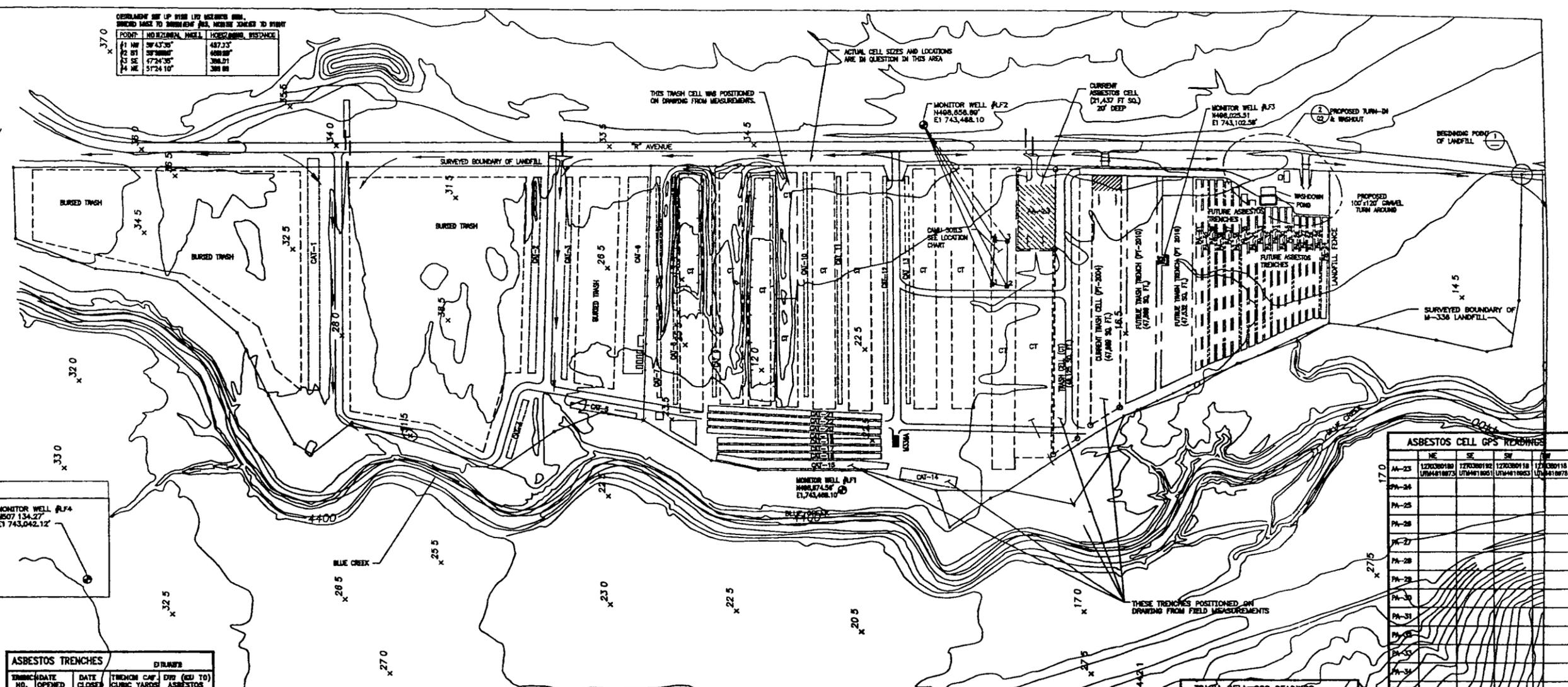
DATE
 3FEB2005

M136-B

INDUSTRIAL LANDFILL
ENLARGED VIEW

OVERLAY SET UP FROM 170 BENCH MARK, SHOWN HERE TO SHOW THE RELATIONSHIP TO THE SURVEYED BOUNDARY OF LANDFILL.

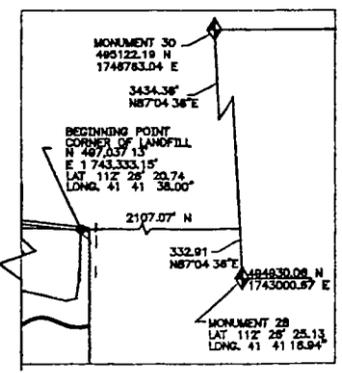
POINT	HORIZONTAL DISTANCE	VERTICAL DISTANCE
1	487.23'	487.23'
2	487.23'	487.23'
3	487.23'	487.23'
4	487.23'	487.23'



ASBESTOS TRENCHES		DIMENSIONS	
TRENCH NO.	DATE OPENED	TRENCH CAP. (CU YD)	ASBESTOS (CU YD)
1	10/1980	2,715	2,715
2	3/1981	1,558	1,558
3	4/1981	1,188	1,188
4	1/1982	387	387
5	1/1982	388	388
6	1/1982	4,181	4,181
7	3/1983	863	863
8	1/1983	888	888
9	3/1977	377	377
10	3/1977	877	877
11	3/1978	889	889
12	3/1978	889	889
13	3/1978	889	889
14	3/1978	889	889
15	4/1984	810	810
16	11/1985	829	829
17	10/1985	829	829
18	11/1985	847	847
19	10/1985	843	843
20	11/1985	888	888
21	10/2000	1,813	1,813
22	11/2000	1,473	1,473

TRENCH NO.	DATE OPENED	DATE CLOSED
1	10/1980	10/1980
2	3/1981	3/1981
3	4/1981	4/1981
4	1/1982	1/1982
5	1/1982	1/1982
6	1/1982	1/1982
7	3/1983	3/1983
8	1/1983	1/1983
9	3/1977	3/1977
10	3/1977	3/1977
11	3/1978	3/1978
12	3/1978	3/1978
13	3/1978	3/1978
14	3/1978	3/1978
15	4/1984	4/1984
16	11/1985	11/1985
17	10/1985	10/1985
18	11/1985	11/1985
19	10/1985	10/1985
20	11/1985	11/1985
21	10/2000	10/2000
22	11/2000	11/2000

M336 LANDFILL
SCALE: 1"=100'



LEGAL DESCRIPTION

BEING MORE OR LESS THE CORNER OF THE LANDFILL, COMMENCING AT A POINT BEING THE INTERSECTION OF THE NORTHWEST CORNER OF THE LANDFILL, COMMENCING AT A POINT BEING THE INTERSECTION OF THE NORTHWEST CORNER OF THE LANDFILL, COMMENCING AT A POINT BEING THE INTERSECTION OF THE NORTHWEST CORNER OF THE LANDFILL...

- NOTES**
- SOME DIMENSIONS AND CELL LOCATIONS ARE ASSUMPTIONS DEDUCED FROM OLD AERIAL PHOTOGRAPHS AND RECOLLECTIONS OF LONG TIME EMPLOYEES.
 - TOPOGRAPHICAL LINES SHOW ARE AT 1 FOOT INTERVALS.

ASBESTOS CELL GPS READINGS			
CELL NO.	NE	SE	SW
PA-23	1270300180	1270300182	1270300181
PA-24	1270300183	1270300184	1270300185
PA-25	1270300186	1270300187	1270300188
PA-26	1270300189	1270300190	1270300191
PA-27	1270300192	1270300193	1270300194
PA-28	1270300195	1270300196	1270300197
PA-29	1270300198	1270300199	1270300200
PA-30	1270300201	1270300202	1270300203
PA-31	1270300204	1270300205	1270300206
PA-32	1270300207	1270300208	1270300209
PA-33	1270300210	1270300211	1270300212
PA-34	1270300213	1270300214	1270300215
PA-35	1270300216	1270300217	1270300218
PA-36	1270300219	1270300220	1270300221
PA-37	1270300222	1270300223	1270300224
PA-38	1270300225	1270300226	1270300227
PA-39	1270300228	1270300229	1270300230
PA-40	1270300231	1270300232	1270300233
PA-41	1270300234	1270300235	1270300236

TRASH CELL GPS READINGS			
CELL NO.	NE	SE	SW
TA-1	1270300180	1270300182	1270300181
TA-2	1270300183	1270300184	1270300185
TA-3	1270300186	1270300187	1270300188
TA-4	1270300189	1270300190	1270300191
TA-5	1270300192	1270300193	1270300194
TA-6	1270300195	1270300196	1270300197
TA-7	1270300198	1270300199	1270300200
TA-8	1270300201	1270300202	1270300203
TA-9	1270300204	1270300205	1270300206
TA-10	1270300207	1270300208	1270300209
TA-11	1270300210	1270300211	1270300212
TA-12	1270300213	1270300214	1270300215
TA-13	1270300216	1270300217	1270300218
TA-14	1270300219	1270300220	1270300221
TA-15	1270300222	1270300223	1270300224
TA-16	1270300225	1270300226	1270300227
TA-17	1270300228	1270300229	1270300230
TA-18	1270300231	1270300232	1270300233
TA-19	1270300234	1270300235	1270300236
TA-20	1270300237	1270300238	1270300239
TA-21	1270300240	1270300241	1270300242
TA-22	1270300243	1270300244	1270300245
TA-23	1270300246	1270300247	1270300248
TA-24	1270300249	1270300250	1270300251
TA-25	1270300252	1270300253	1270300254
TA-26	1270300255	1270300256	1270300257
TA-27	1270300258	1270300259	1270300260
TA-28	1270300261	1270300262	1270300263
TA-29	1270300264	1270300265	1270300266
TA-30	1270300267	1270300268	1270300269
TA-31	1270300270	1270300271	1270300272
TA-32	1270300273	1270300274	1270300275
TA-33	1270300276	1270300277	1270300278
TA-34	1270300279	1270300280	1270300281
TA-35	1270300282	1270300283	1270300284
TA-36	1270300285	1270300286	1270300287
TA-37	1270300288	1270300289	1270300290
TA-38	1270300291	1270300292	1270300293
TA-39	1270300294	1270300295	1270300296
TA-40	1270300297	1270300298	1270300299
TA-41	1270300300	1270300301	1270300302
TA-42	1270300303	1270300304	1270300305
TA-43	1270300306	1270300307	1270300308
TA-44	1270300309	1270300310	1270300311
TA-45	1270300312	1270300313	1270300314
TA-46	1270300315	1270300316	1270300317
TA-47	1270300318	1270300319	1270300320
TA-48	1270300321	1270300322	1270300323
TA-49	1270300324	1270300325	1270300326
TA-50	1270300327	1270300328	1270300329
TA-51	1270300330	1270300331	1270300332
TA-52	1270300333	1270300334	1270300335
TA-53	1270300336	1270300337	1270300338
TA-54	1270300339	1270300340	1270300341
TA-55	1270300342	1270300343	1270300344
TA-56	1270300345	1270300346	1270300347
TA-57	1270300348	1270300349	1270300350
TA-58	1270300351	1270300352	1270300353
TA-59	1270300354	1270300355	1270300356
TA-60	1270300357	1270300358	1270300359
TA-61	1270300360	1270300361	1270300362
TA-62	1270300363	1270300364	1270300365
TA-63	1270300366	1270300367	1270300368
TA-64	1270300369	1270300370	1270300371
TA-65	1270300372	1270300373	1270300374
TA-66	1270300375	1270300376	1270300377
TA-67	1270300378	1270300379	1270300380
TA-68	1270300381	1270300382	1270300383
TA-69	1270300384	1270300385	1270300386
TA-70	1270300387	1270300388	1270300389
TA-71	1270300390	1270300391	1270300392
TA-72	1270300393	1270300394	1270300395
TA-73	1270300396	1270300397	1270300398
TA-74	1270300399	1270300400	1270300401
TA-75	1270300402	1270300403	1270300404
TA-76	1270300405	1270300406	1270300407
TA-77	1270300408	1270300409	1270300410
TA-78	1270300411	1270300412	1270300413
TA-79	1270300414	1270300415	1270300416
TA-80	1270300417	1270300418	1270300419
TA-81	1270300420	1270300421	1270300422
TA-82	1270300423	1270300424	1270300425
TA-83	1270300426	1270300427	1270300428
TA-84	1270300429	1270300430	1270300431
TA-85	1270300432	1270300433	1270300434
TA-86	1270300435	1270300436	1270300437
TA-87	1270300438	1270300439	1270300440
TA-88	1270300441	1270300442	1270300443
TA-89	1270300444	1270300445	1270300446
TA-90	1270300447	1270300448	1270300449
TA-91	1270300450	1270300451	1270300452
TA-92	1270300453	1270300454	1270300455
TA-93	1270300456	1270300457	1270300458
TA-94	1270300459	1270300460	1270300461
TA-95	1270300462	1270300463	1270300464
TA-96	1270300465	1270300466	1270300467
TA-97	1270300468	1270300469	1270300470
TA-98	1270300471	1270300472	1270300473
TA-99	1270300474	1270300475	1270300476
TA-100	1270300477	1270300478	1270300479
TA-101	1270300480	1270300481	1270300482
TA-102	1270300483	1270300484	1270300485
TA-103	1270300486	1270300487	1270300488
TA-104	1270300489	1270300490	1270300491
TA-105	1270300492	1270300493	1270300494
TA-106	1270300495	1270300496	1270300497
TA-107	1270300498	1270300499	1270300500
TA-108	1270300501	1270300502	1270300503
TA-109	1270300504	1270300505	1270300506
TA-110	1270300507	1270300508	1270300509
TA-111	1270300510	1270300511	1270300512
TA-112	1270300513	1270300514	1270300515
TA-113	1270300516	1270300517	1270300518
TA-114	1270300519	1270300520	1270300521
TA-115	1270300522	1270300523	1270300524
TA-116	1270300525	1270300526	1270300527
TA-117	1270300528	1270300529	1270300530
TA-118	1270300531	1270300532	1270300533
TA-119	1270300534	1270300535	1270300536
TA-120	1270300537	1270300538	1270300539
TA-121	1270300540	1270300541	1270300542
TA-122	1270300543	1270300544	1270300545
TA-123	1270300546	1270300547	1270300548
TA-124	1270300549	1270300550	1270300551
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TA-134	1270300579	1270300580	1270300581
TA-135	1270300582	1270300583	1270300584
TA-136	1270300585	1270300586	1270300587
TA-137	1270300588	1270300589	1270300590
TA-138	1270300591	1270300592	1270300593
TA-139	1270300594	1270300595	1270300596
TA-140	1270300597	1270300598	1270300599
TA-141	1270300600		

LANDFILL LOG



New Record Edit

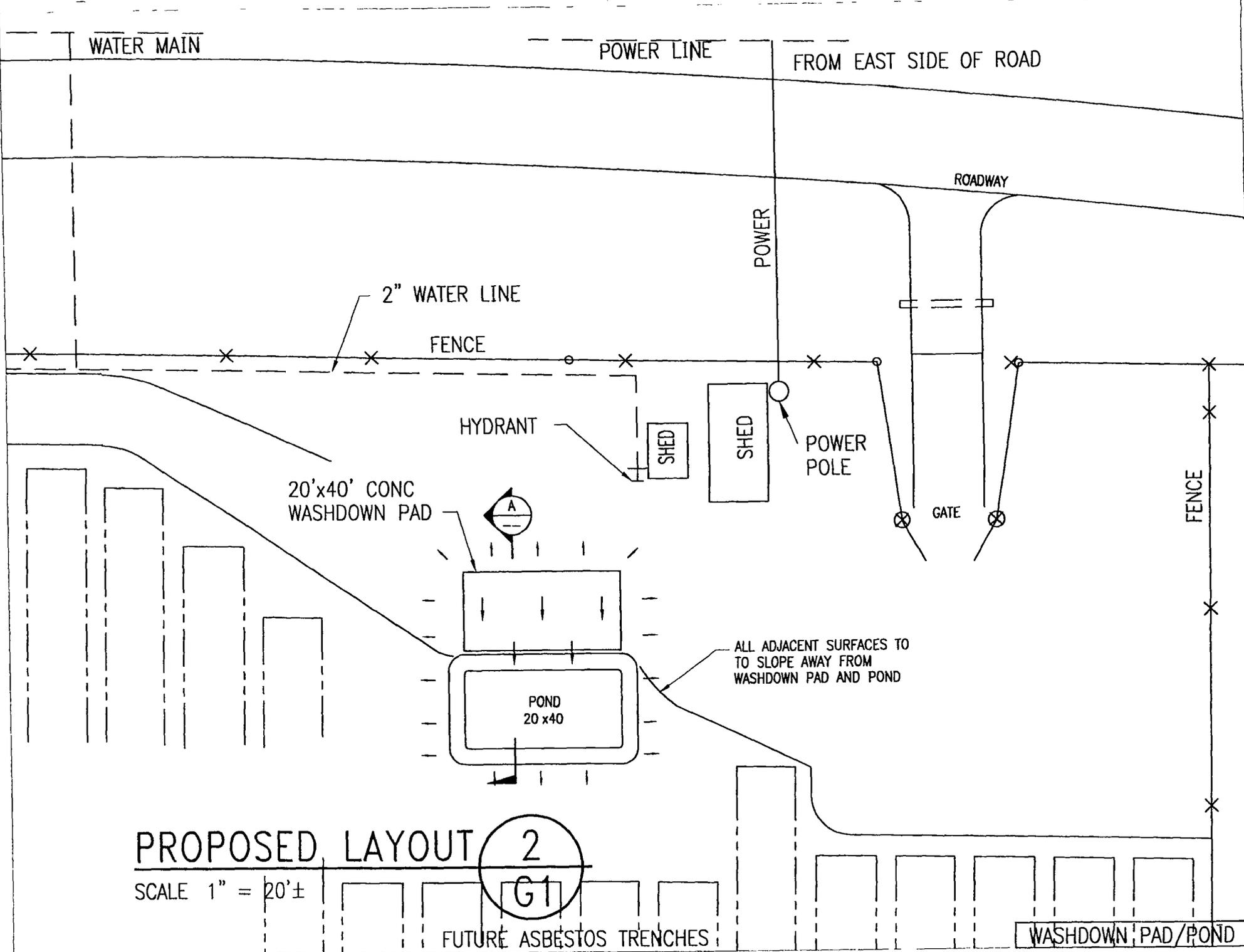
Record Navigation

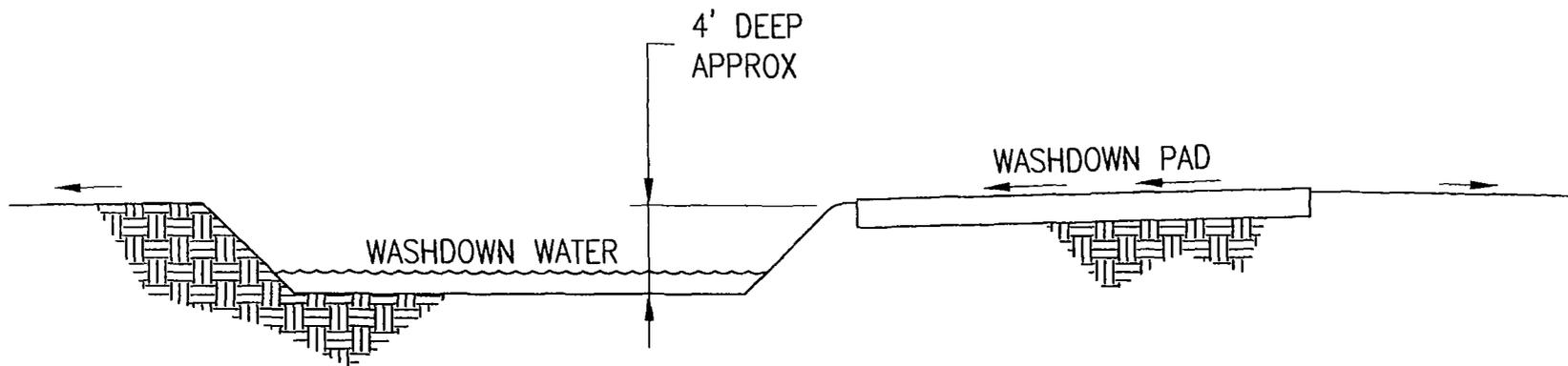
Date Rec: 7/26/05

Building	Description	Qty	UM	Disposal Site
E517	PHENOLIC CARBON	3	CY	ASBESTOS INDUSTRIAL TRENCH
H007	ASBESTOS AND DEBRIS	3	CY	ASBESTOS INDUSTRIAL TRENCH
M003	ASBESTOS AND DEBRIS	4	CY	ASBESTOS INDUSTRIAL TRENCH
M086	PHENOLIC CARBON	8	CY	POINT OF MOUNTAIN
M136	CRUSHED METAL DRUMS	5	CY	ASBESTOS INDUSTRIAL TRENCH
M508	SAND	3	CY	ASBESTOS INDUSTRIAL TRENCH
M585	ASBESTOS AND DEBRIS	3	CY	ASBESTOS INDUSTRIAL TRENCH
PLANT	COMMON TRASH	40	CY	LANDFILL

Comments: _____

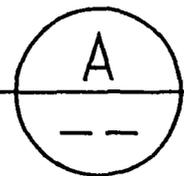
Control SpaceBar: Building Name & UM Help





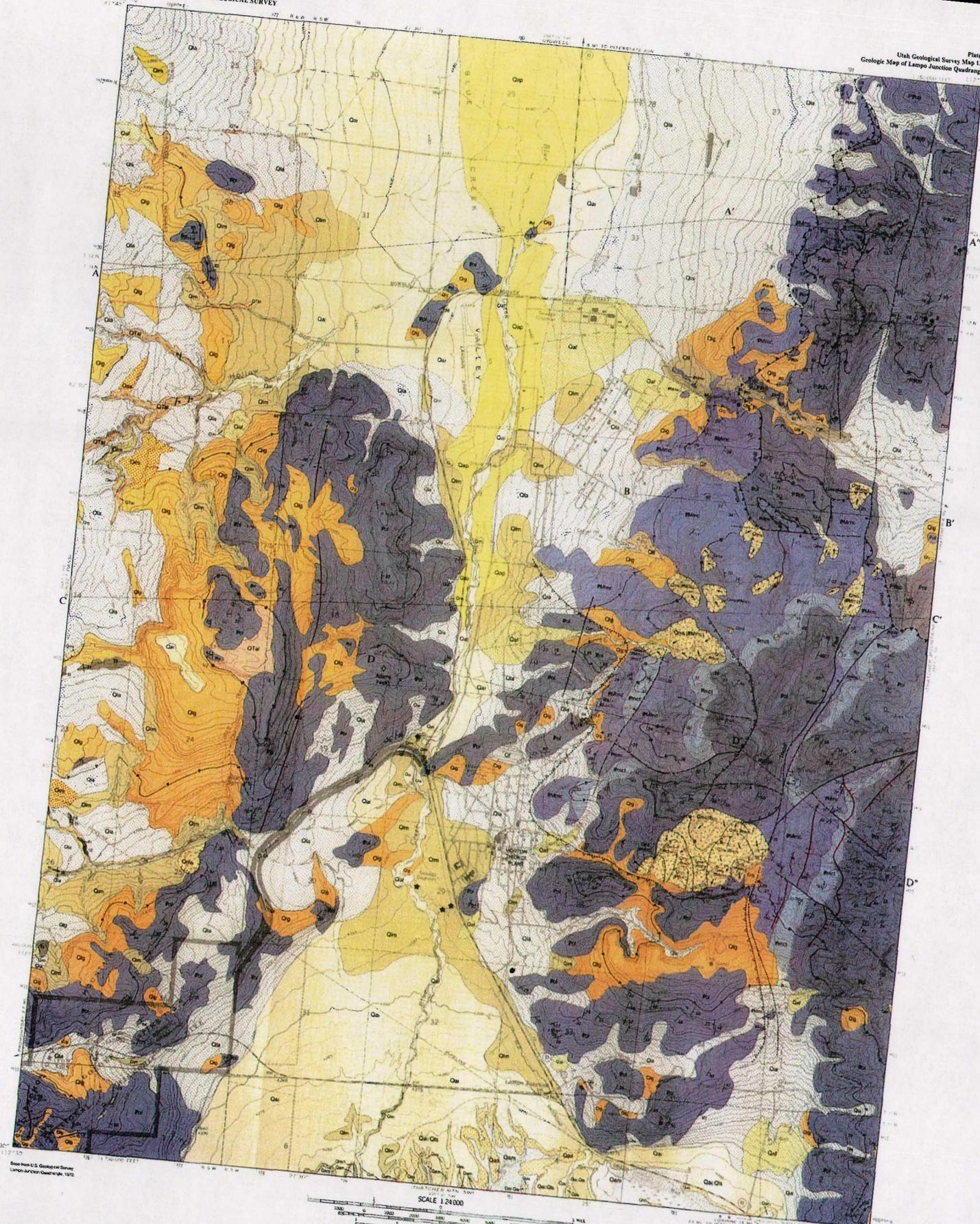
TYPICAL SECTION

SCALE 1/8" = 1'-0" APPROX



WASHDOWN PAD/POND



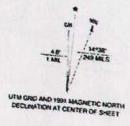


SCALE 1:24,000
CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 5 FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

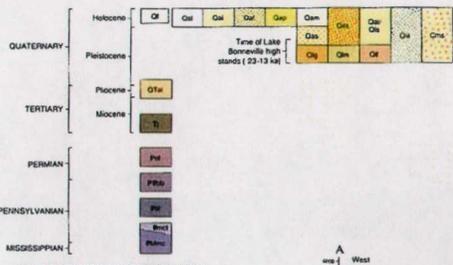
GEOLOGIC MAP OF THE LAMO JUNCTION QUADRANGLE BOX ELDER COUNTY, UTAH

by
David M. Miller¹, Max D. Crittenden, Jr.², and Teresa E. Jordan¹
¹U.S. Geological Survey, ²Deceased

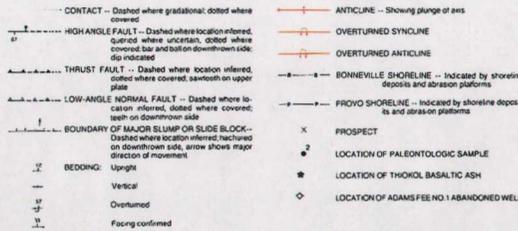
1991



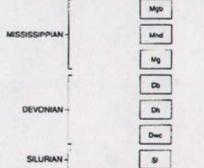
CORRELATION OF MAP UNITS



MAP SYMBOLS



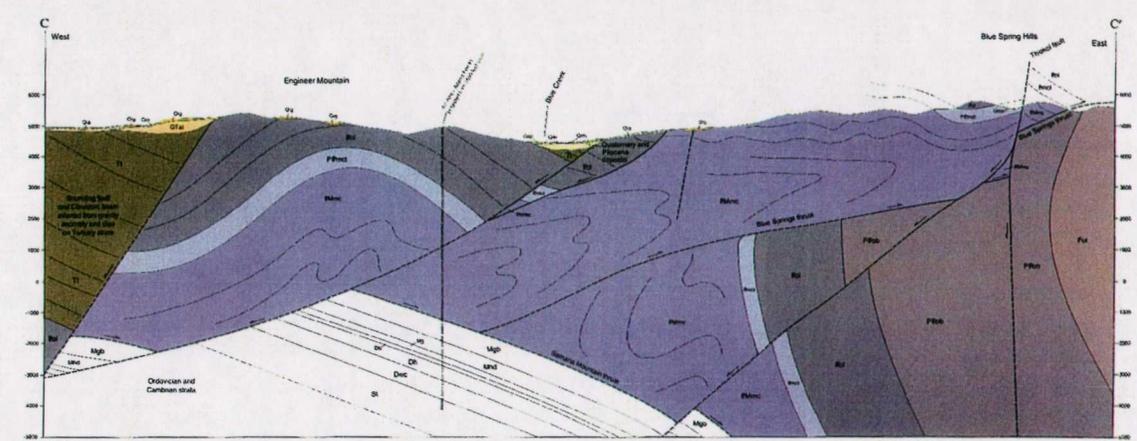
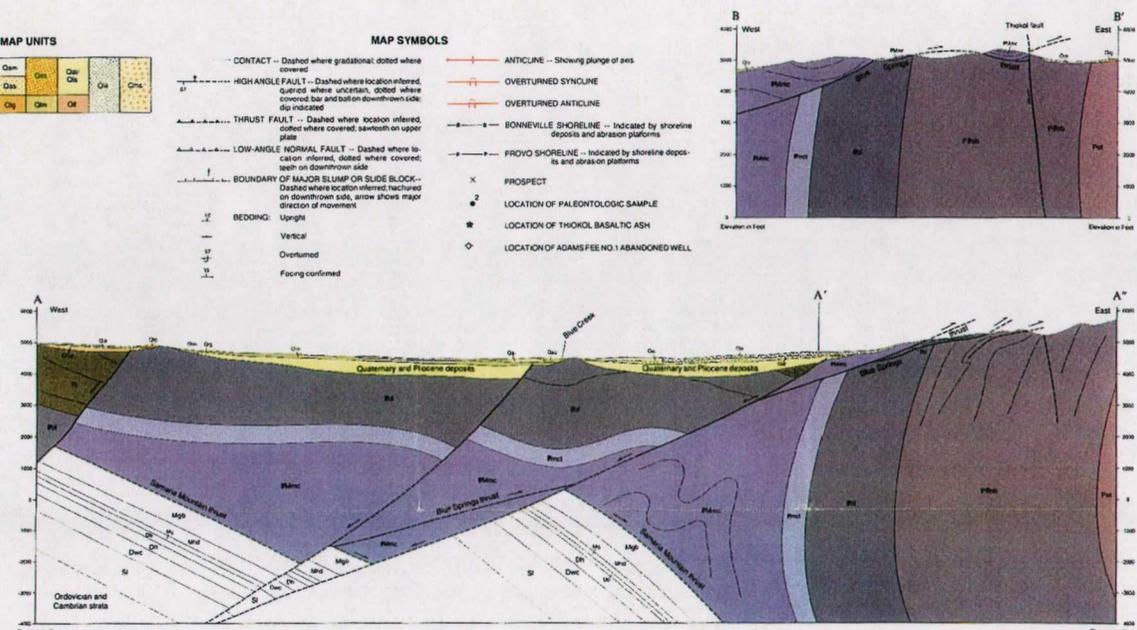
UNITS SHOWN ONLY IN CROSS SECTION



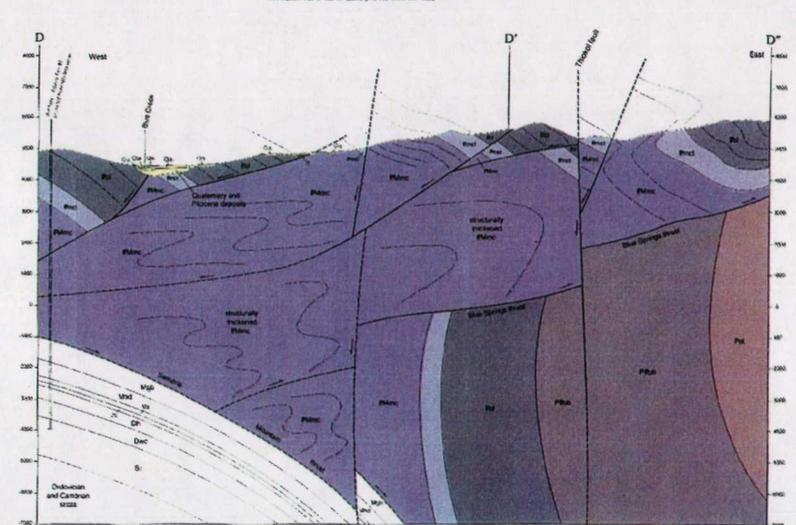
DESCRIPTION OF MAP UNITS

- Qf** (Holocene) — Material used to construct building pads and railroad grades.
- Qa** Alluvium (Holocene) — Poorly sorted gravel, sand, silt, and clay in and near ephemeral and perennial stream channels.
- Qc** Alluvial silt (Holocene) — Dark-brown silt, sand, and clay occupying flood plains, older alluvial fans, and low-gradient stream channels. Includes ponded deposits behind lacustrine bars of Lake Bonneville about 5140 feet (1567 m) elevation, west of Engineer Mountain.
- Qd** Alluvial clay deposits (Holocene) — Poorly sorted gravel, sand, silt, and clay forming fans and terraces.
- Qe** Alluvial plain deposits (Holocene) — Brown, thin-bedded sand, silt, and clay deposits chiefly located along the Blue Creek flood plain.
- Qm** Alluvial mud (Holocene) — Dark-brown organic-rich clay and silt deposits forming mud flats.
- Qn** Eolian sand (Holocene and Pleistocene) — Medium-brown sand in dunes and sheets. Commonly contains more than 75% calcic glass shards.
- Qo** Thin alluvial silt overlying lacustrine sand (Holocene and Pleistocene) — Brown, well-sorted, unbedded sand deposited in the Gilbert shoreline overlap by the deposits of alluvial silt and sand.
- Qp** Lacustrine and alluvial deposits, unbedded (Pleistocene and Pleistocene) — Unsorted alluvial deposits partly reworked by shoreline processes, patches of lacustrine silt and mud, local alluvium covering lacustrine deposits, and sandy sand of mixed alluvial and lacustrine origin.
- Qq** Mass-movement slides (Holocene and Pleistocene) — Slumped material and slide blocks. Rock units in slide indicated in parentheses where other than colluvium. Features indicate head-scarp.
- Qr** Alluvial sand and silt (Pleistocene) — Fine sand and silt beds deposited on lacustrine (bedded) mud and remain by shoreline sand deposited by the Gilbert stage of Lake Bonneville.
- Qs** Lacustrine gravel (Pleistocene) — Unconsolidated and sub-consolidated gravel as large as cobbles, with silt matrix. Forms bars and tombolos.
- Qt** Lacustrine mud (Pleistocene) — White to pale-brown, laminated mud with desiccation. Locally includes sand beds, gravel lenses, and a basal tuff bed. Deposited in Lake Bonneville. Lower part of unit shows complete lamination and soil structures in valleys west of Blue Creek Valley.
- Qv** Lacustrine fine-grained sediments (Pleistocene) — Light-colored clay, silt, and sand, replace with interbeds of bedded gravel.
- Qw** Alluvium and tuff, unbedded (Pleistocene to Miocene) — Unconsolidated to cemented, white calcite-coated boulders, cobbles, and pebbles near terrace crests. Underlain by not moderately consolidated, well-bedded alluvium and locally thick accumulations of fine sand and silt-sized beds. Thin to thick bedded. Clasts mostly rounded quartzite and subvolcanic shale and siltstone.
- Qx** Tuff (Miocene) — Moderately consolidated, gray to brown tuff and silt deposited in streams and lakes. Air-fall tuffs 100% glass shards, reworked tuff contains varying amounts of sand grains and silt fragments, and is silt-sand and bedded interbedded with sand, silt, and mud. Generally dips 10 to 30 degrees eastward.

- Oquirrh Formation—divided into:
- Pst** Thinly bedded member (Lower Permian) — Thin-bedded siltstone and calcilite with common lenses of dark-brown chert.
 - Psh** Blocky bedded limestone member (Lower Permian and Upper and Middle? Pennsylvanian) — Light-medium-gray, silty and sandy limestone and lower, calcareous, very-fine-grained sandstone. Blocky bedded beds and laminated beds are interbedded in medium to thick beds.
 - Psl** Limestone member (Middle? and Lower Pennsylvanian) — Light-medium-gray limestone and minor brown sandstone. Thickly to medium bedded, fossiliferous, and locally cherty.
- Manning Canyon Shale—divided into:
- Ptm** Transitional member (Lower Pennsylvanian) — Interbedded quartzite, siltstone, and medium-bedded fossiliferous limestone, transitional into the limestone member of the Oquirrh Formation.
 - Ptn** Lower member (Pennsylvanian and Upper Mississippian) — Medium to coarse-grained sandstone, locally exposed dark-brown quartzite, and poorly exposed interbedded gray and black shale and siltstone. Rare fossiliferous limestone.
- SHOWN ONLY IN CROSS SECTIONS
- Mgp** Great Blue Limestone (Mississippian) — Locally cherty, block-bedded limestone containing corals.
 - Mnd** Humbug Formation and Deseret Limestone, unbedded (Mississippian) — Brown sandy and silty limestone and calcareous siltstone.
 - Mg** Gardner Limestone (Mississippian) — Dark-gray, thin-bedded fossiliferous limestone.
 - Dd** Beirneau Formation (Devonian) — Calcareous sandstone, dark limestone, and limestone.
 - Dh** Hysum Dolomite (Devonian) — Dolomite and limestone.
 - Dc** Water Canyon Formation (Devonian) — Coarsely laminated light- and dark-gray dolomite.
 - S** Laketown Dolomite (Silurian) — Pale-gray to white dolomite.



FORMATION	MEMBER	THICKNESS (FEET)	AGE (MIDDLE MISSISSIPPIAN TO SILURIAN)	LITHOLOGY
Oquirrh Formation	Thinly bedded member	Pst	>2000 (1-610)	Siltstone and calcilite with common lenses of dark-brown chert.
	Blocky bedded limestone member	Psh	5500 (1675)	Light-medium-gray, silty and sandy limestone and lower, calcareous, very-fine-grained sandstone.
	Limestone member	Psl	600 (183)	Light-medium-gray limestone and minor brown sandstone.
Manning Canyon Shale	Transitional member	Ptm	>3000 (>915)	Interbedded quartzite, siltstone, and medium-bedded fossiliferous limestone.
	Lower member	Ptn	>3000 (>915)	Medium to coarse-grained sandstone, locally exposed dark-brown quartzite, and poorly exposed interbedded gray and black shale and siltstone.



STATE OF UTAH
DEPARTMENT OF ENVIRONMENTAL
QUALITY

RECEIPT

Date 6-14 2010 104101

Received From ATK Launch Systems 2010, 02011
Address _____

For Landfill Renewal Application Fee Dollars (\$ 100⁰⁰)

ACCOUNT		HOW PAID		UNIT	ACCT	PROGRAM	FUNCTION
AMT. OF ACCOUNT		CASH		6500	2316		
AMT. PAID		CHECK #614169		By <u>Christoff</u>			
BALANCE DUE		MONEY ORDER					