

SW395

Division of
Solid and Hazardous Waste

SEP - 2 2014

2014-011495

**CLASS IVb
SOLID WASTE LANDFILL
PERMIT APPLICATION**



**Sunroc Corporation
SANTAQUIN PIT LANDFILL**

Submitted by:

Sunroc Corporation

730 N. 1500 W.

Orem, Utah 84057

To:

Utah Division of solid and Hazardous Waste

P.O. Box 144880

195 North 1950 West

Salt Lake City, Utah 84114-4880

Utah Class IV and VI Landfill Permit Application Form

Part I General Information APPLICANT: PLEASE COMPLETE ALL SECTIONS.						
I. Landfill	<input type="checkbox"/> Class IVa	<input checked="" type="checkbox"/> Class IVb	II. Application Type	<input checked="" type="checkbox"/> New Application	<input type="checkbox"/> Facility Expansion	<input type="checkbox"/> Modification
	<input type="checkbox"/> Class VI			<input type="checkbox"/> Renewal Application		
For Renewal Applications, Facility Expansion Applications and Modifications Enter Current Permit Number _____						
III. Facility Name and Location						
Name of Facility Sunroc Santaquin Landfill						
Site Address (street or directions to site) South Santaquin Frontage Road					County Utah	
City Santaquin, Utah			Zip Code 84655		Telephone 801-802-6900	
Township 10 S.		Range 1 E.		Section(s) 15		Quarter/Quarter Section S. 1/2
						Quarter Section
Main Gate Latitude 39 degrees 56 minutes 19.35 seconds				Longitude 111 degrees 48 minutes 45.55 seconds		
IV. Facility Owner(s) Information						
Name of Facility Owner Sunroc Corporation						
Address (mailing) P.O. Box 1955						
City Orem			State UT.		Zip Code 84059	
					Telephone 801-802-6900	
V. Facility Operator(s) Information						
Name of Facility Operator Sunroc Corporation						
Address (mailing) P.O. Box 1955						
City Orem			State UT.		Zip Code 84059	
					Telephone 801-802-6900	
Property Owner(s) Information						
Name of Property Owner Same						
Address (mailing)						
City			State		Zip Code	
					Telephone	
VII. Contact Information						
Owner Contact Brent R. Sumsion				Title Property and Environmental Manager		
Address (mailing) 730 N. 1500 W.						
City Orem			State UT		Zip Code 84059	
					Telephone 801-360-1344	
Email Address bsumsion@clydeinc.com				Alternative Telephone (cell or other) 801-802-6933		
Operator Contact Same				Title		
Address (mailing)						
City			State		Zip Code	
					Telephone	
Email Address				Alternative Telephone (cell or other)		
Property Owner Contact Same				Title		
Address (mailing)						
City			State		Zip Code	
					Telephone	
Email Address				Alternative Telephone (cell or other)		

Utah Class IV and VI Landfill Permit Application Form

Part I General Information (Continued)

VIII. Waste Types (check all that apply)	IX. Facility Area																					
Landfill will accept all wastes allowed in Class IV or VI landfills Or will accept only the following wastes	Facility Area..... <u>55</u> acres																					
<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Waste Type</td> <td style="width: 33%;">Combined Disposal Unit</td> <td style="width: 33%;">Monofill Unit</td> </tr> <tr> <td><input type="checkbox"/> Construction & Demolition</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Tires</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Yard Waste</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Animals</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Contaminated Soil</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	Waste Type	Combined Disposal Unit	Monofill Unit	<input type="checkbox"/> Construction & Demolition	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Tires	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yard Waste	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Animals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Contaminated Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Other _____	<input type="checkbox"/>	<input type="checkbox"/>	Disposal Area..... <u>55</u> acres
Waste Type	Combined Disposal Unit	Monofill Unit																				
<input type="checkbox"/> Construction & Demolition	<input type="checkbox"/>	<input checked="" type="checkbox"/>																				
<input type="checkbox"/> Tires	<input type="checkbox"/>	<input type="checkbox"/>																				
<input type="checkbox"/> Yard Waste	<input type="checkbox"/>	<input checked="" type="checkbox"/>																				
<input type="checkbox"/> Animals	<input type="checkbox"/>	<input type="checkbox"/>																				
<input type="checkbox"/> Contaminated Soil	<input type="checkbox"/>	<input type="checkbox"/>																				
<input type="checkbox"/> Other _____	<input type="checkbox"/>	<input type="checkbox"/>																				
Note: Disposal of dead animals must be approved by the Director	Design Capacity																					
	Years..... <u>50</u>																					
	Cubic Yards..... <u>8,364,000</u>																					
	Tons..... <u>12,546,000</u>																					

X. Fee and Application Documents

Indicate Documents Attached To This Application	<input type="checkbox"/> Application Fee: Amount \$ 750.00	Class VI Special Requirements
<input checked="" type="checkbox"/> Facility Map or Maps <input type="checkbox"/> Ground Water Report	<input checked="" type="checkbox"/> Facility Legal Description <input checked="" type="checkbox"/> Closure Design	<input type="checkbox"/> Documents required by UCA 19-6-108(9) and (10)
<input checked="" type="checkbox"/> Plan of Operation <input checked="" type="checkbox"/> Cost Estimates	<input checked="" type="checkbox"/> Waste Description <input checked="" type="checkbox"/> Financial Assurance	

I HEREBY CERTIFY THAT THIS INFORMATION AND ALL ATTACHED PAGES ARE CORRECT AND COMPLETE.

Signature of Authorized Owner Representative		Title <u>Property Manager</u>	Date <u>5-7-14</u>
<u>Brent R. Summison</u> Name typed or printed		<u>730 N. 1500 W., Orem, UT</u> Address	
Email Address <u>bsummison@clydeinc.com</u>		Alternative Telephone (cell or other) <u>861-360-1344</u>	
Signature of Authorized Land Owner Representative (if applicable)		Title	Date
Name typed or printed		Address	
Email Address		Alternative Telephone (cell or other)	
Signature of Authorized Operator Representative (if applicable)		Title	Date
Name typed or printed		Address	
Email Address		Alternative Telephone (cell or other)	

TABLE OF CONTENTS

Section I

Permit Application

Section II

1.0	Facility General Information	3
1.1	General Description of the Facility Site	3
1.2	Legal Description and Proof of Ownership	4
1.3	Area Served by Facility and Waste	5
1.4	Type of Facility and Waste	5
1.5	Construction Schedule	5
2.0	Land Use Compatibility	5
2.1	Geology	5
2.2	Surface Water	6
2.3	Floodplains	7
2.4	Wetlands	7
2.5	Groundwater	7
2.6	Airports	7
3.0	Plan of Operation	7
3.1	Class IVb Landfill	8
3.2	Waste Handling Procedures	8
3.3	Litter Control	8
3.4	Recycling Program	8
3.5	Alternative Waste Handling and Disposal Plan	8
3.6	Landfill Inspection and Monitoring Schedule	9
3.7	Equipment	9
3.8	Procedures for Controlling Disease Vectors	9
3.9	Training and Safety Plan for Site Operation	9
3.10	Emergency Plans	9
3.11	Record Keeping	10
3.12	Reporting	10
4.0	Engineering Report	10
4.1	Location Standards	11

4.2	Geology	11
4.3	Seismic	12
4.4	Surface Water	12
4.5	Ground Water	12
4.6	Wetlands, Cultural Resources and Endangered Species	12
4.7	Solid Waste Management Plan	13
4.8	Cell Design and Development	13
4.9	Run-on and Run-off Control	13
4.10	Closure and Post Closure Design and Maintenance	13
4.11	Volume Capacity	14
4.12	Final Inspection	14
4.13	Recording	14
4.14	Post-Closure Monitoring	14
4.15	Post-Closure Maintenance	14
4.16	Notice of Intent	15
5.0	Financial Assurance Plan	15

APPENDIX

Warrant Deeds	Appendix A
Cultural Study	Appendix B
Wet Lands	Appendix C
Correspondence	Appendix D
Other Permits	Appendix E
Surety Documents	Appendix F
Corporate Test	Appendix G
Figures	Appendix
Storm Water Pollution Prevention Plan	Appendix

1.0 Facility General Information

Sunroc Corporation (Sunroc) desires to construct and operate a Class IVb landfill on their gravel pit property they own approximately 2.7 miles SW of Santaquin, Utah. This facility will be a privately operated landfill that will, on average, receive 250 tons of waste per day. The waste will be composed of construction or demolition debris, yard waste or other inert waste. This application is to apply for the facility's operating permit.

1.1 General Description of Facility Site

The Sunroc landfill site is approximately 54.19-acres in size and is located approximately 2.7 miles SW of Santaquin, Utah on the south end of Utah Valley. Utah Valley is a long fairly wide valley bounded on the south end by the Wasatch Mountains on the east and the Tintic Mountains to the west. Utah Valley is located in a semiarid area of Utah. The average annual precipitation in Santaquin and surrounding area is 18.82 inches. Any storm water runoff coming from the south end of the valley flows north to Utah Lake and then further north to the Great Salt Lake. The landfill is situated in a sand and gravel bar created by Lake Bonneville. This gravel bar was actually a beach area formed as the lake receded about 10,000 years ago. The natural gradient of the original undisturbed ground was sloping from southeast to northwest (see Original Contours Drawing in Figures Section). The area is presently being mined for sand and gravel that is used in a variety of construction and development applications in the central Utah.

As the mining progresses from north to south, a large pit is opened up and the mining is extended to a depth that either exhausts the depth limits of the sand and gravel layer or extends too deep to be able to mine the sand and gravel safely or economically. Once this point is reached Sunroc will backfill the spent mine area with landfill materials. There is presently a small area that is spent and has reached backfill potential. Ultimately it is anticipated that there may be some areas of the pit that can receive up to 280 feet of backfill. The site is bounded on the north by Summit Ridge Parkway, on the east by I-15 and the adjacent frontage road on the south by farm ground and the Union Pacific Rail Road and on the west by the Santaquin Gun Club and the Union Pacific Railroad. The site soils are derived from alluvium and alluvial fans composed of sand, gravel, boulders and clay. The upper most aquifer that underlies the site occurs in the alluvium under unconfined water table conditions. Depth to the groundwater under the Class IV landfill site is approximately 250 feet below natural ground surface.

The land use of the site and adjacent properties are designated mining and grazing by Utah County. Utah County is the local government entity that has jurisdiction over the facility site.

Utah County granted a Conditional Use Permit to operate this landfill on Dec. 10, 2013. See attached Appendix E.

The site is secured by a barbed wire fence on the north and east and by rail road tracks on the south and east. The site's main access in the south east corner is secured by a steel framed gate that is locked after hours and during weekends to prohibit unauthorized access. The paved I-15 frontage road is the main access from the South Santaquin I-15 interchange and is maintained by Utah County and has been built to a standard that can facilitate the heavy haul trucks that bring materials in and out of the site.

1.2 Legal Description and proof of ownership

Parcel 1

COM AT S 1/4 COR. SEC. 15, T10S, R1E, SLB&M.; S 89 DEG 31' 57" W 668.12 FT; ALONG A CURVE TO R (CHORD BEARS: N 9 DEG 43' 53" W 735.33 FT, RADIUS = 3048.79 FT) ARC LENGTH = 737.12 FEET; N 89 DEG 38' 37" E 196.92 FT; N 211.41 FT; N 26 DEG 32' 5" E 699.99 FT; N 63 DEG 27' 55" W 548.8 FT; N 1 DEG 25' 24" E 280.85 FT; S 89 DEG 6' 0" E 685.77 FT; S 0 DEG 6' 19" E 638.39 FT; N 48 DEG 27' 55" E 323.1 FT; S 1 DEG 32' 0" E 1221.53 FT; S 80 DEG 0' 0" E 321.74 FT; ALONG A CURVE TO L (CHORD BEARS: S 17 DEG 16' 37" W 33.28 FT, RADIUS = 5802.65 FT) ARC LENGTH = 33.28 FEET; N 80 DEG 0' 0" W 509.34 FT; S 429 FT TO BEG. AREA 33.344 AC.

Parcel 2

COM N 1648.30 FT & E 1087.31 FT FR S1/4 COR SEC 15, T10S, R1E, SLM; S 28 DEG 24'16"W 42.46 FT; SWLY 715.47 FT ALONG ARC OF 5802.65 FT RAD CUR L (CHD S 27 DEG 21'15"W 715.02 FT); N 66 DEG 10'42"W 33 FT; SWLY 654.17 FT ALONG ARC OF 5836.65 FT RAD CUR L (CHD S 20 DEG 36'37"W 653.82 FT); N 80 DEG W 288.46 FT; N 01 DEG 32'W 1221.53 FT; S 89 DEG 56'17"E 925.37 FT TO BEG. AREA 16.82 ACRES.

Parcel 3

COM S1/4 COR SEC 15, T10S, R1E, SLM; N 429 FT; S 80 DEG E 509.34 FT; SWLY 349.81 FT ALONG ARC OF 5802.65 FT RAD CUR L (CHD S 15 DEG 23'09"W 349.75 FT); S 89 DEG 31'57"W 408.82 FT TO BEG. AREA 4.03 ACRES.

A copy of the most current deed recorded with the Utah County Recorder showing ownership vested in the name of Sunroc Corporation is attached as Appendix A.

The following positions and personnel represent Sunroc's contact list of responsible officials as they pertain to the Santaquin Landfill operation, closure, and post-closure issues.

Landfill Owner:	Sunroc Corporation
Operator:	Sunroc Corporation
Address:	P.O. Box 1955 Orem, Utah 84059

Owner Contact Person:	Brent R. Sumsion
Phone:	(801) 802-6900

Operator Contact Person:	Wayne Humphries
Phone:	(801) 372-7889

1.3 Area Served by Facility

The Sunroc Class IVb Landfill will be a non-commercial privately owned and operated facility. The Landfill will only receive construction and demolition waste generated by Sunroc and its sub-contractors at sites where Sunroc is general contractor.

1.4 Type of Facility and Waste

The Sunroc Class IVb landfill will be a non-commercial privately owned and operated facility that will receive waste from Sunroc and its sub-contractors doing business in the State of Utah.

A Class IVb Landfill is permitted by the Solid and Hazardous Waste Board to receive for disposal the following:

- a) Concrete, bricks and other masonry materials.
- b) Soil and rock.
- c) Waste asphalt.
- d) Rebar contained in concrete.
- e) Untreated wood and tree stumps.
- f) Waste asphalt.

1.5 Construction Schedule

The excavated pit which will serve as the waste "cell" has been started and will continue to be created over the next 20-50 years as sand and gravel is mined out and used for construction projects in the region. It is anticipated that operations to receive waste will begin as soon as permitted.

2.0 Land Use Compatibility

The landfill site is located in a mining and grazing zoned area of Utah County with a land use designation of M-G. The only buildings within ½ mile of the landfill is the storage building that the Santaquin Gun Club uses to store their equipment. The Rocky Ridge Subdivision located about ½ mile away is actually in the neighboring Juab County. There is a competing sand and gravel pit south west of the landfill site and sand and gravel mining being conducted to the North of the landfill site. Due to the location of the site being in a historic and active sand and gravel mining area, shooting range and dry land grazing area we do not anticipate any problems with complaints about noise, dust or aesthetics of a landfill.

2.1 Geology

Utah Valley is a long fairly wide valley bounded on the south end by the Wasatch Mountains on the east and the Tintic Mountains to the west. The valley topography was shaped by Pleistocene Lake Bonneville and by stream activity. Lake Bonneville occupied Jordan Valley, Utah Valley and most other valleys in western Utah during the Late Pleistocene time. The sediments deposited

in this ancient lake have been divided into three formations: Alpine (oldest), Bonneville, and Provo (youngest). These sediments are unconsolidated, but locally are loosely cemented by calcium carbonate. Currents in Lake Bonneville and contemporaneous stream flows from the mountains combined to form spits, beaches, bars and huge deltas such as the one at the mouth of Santaquin Canyon. Pre-Lake Bonneville alluvial fans underlie most of these deposits and project above them on the mountain flanks. Lake bottom sediments form a nearly flat plain in the central parts of Utah and Goshen valleys.

In northern Juab Valley large coalescing alluvial fans are present on both sides of this valley. Those on east side are extremely large and extend almost to the center of the valley. Two landslides are present here; the northernmost, in the NE ¼ sec. 27, T. 10 S., R. 1 E., is about one-half mile wide at the toe and consist of jumbled debris of the North Horn Formation. Highway I-15 cuts through the toe of the landslide. About two mile south is a large hummocky debris slide at Mendenhall Canyon.

The lowest elevation in northern Juab Valley is 4,877 feet at the Mona Reservoir. It is thought that the valley was occupied by only the highest stages of Bonneville; the Alpine and Bonneville. Alpine sediments were mapped along the center of the valley but no shoreline deposit of either formation could be found.

The structure of the northern Juab Valley is presumed to be graben that consists of a down dropped east limb of an anticline. Foutz (1960, p. 29) states that on the west side of the valley, the Humbug Formation (Mississippian) dips to the east and that on the east side of the valley more Humbug outcrops have about the same attitude. The fault along the east side of the valley is quite obvious, but the only evidence for a fault on the west side is the vertical stratigraphic displacement. Foutz (1960, p. 29) mentions that at Mendenhall canyon the northward –trending Wasatch fault is deflected to the northeast and crosses Santaquin Canyon about three miles southeast of the town of Santaquin. (Fitzhugh D. Davis, Utah Geological and Mineral Survey Map of Southern Wasatch Front, Utah – April 1983)

2.2 Surface Water

There are no perennial streams adjacent to the site. Summit Creek (in Santaquin Canyon) is the closest perennial stream bed and it lies 2 miles to the north east. The gravel pit and landfill area have been excavated such that all storm water is contained on site and absorbed by the existing earthen materials. Drainage structures to control and contain the runoff of the 25 year/24 hour precipitation event has been constructed as part of the historic sand and gravel operation and consist of a three foot berm to contain any water around the perimeter of the site. Utilizing the Point Precipitation Frequency Estimates form NOAA Atlas 14, the 25 year/24 hour precipitation is estimated to be 2.6 inches. Total volume of a 25 year event equals 55 acres x 43,560 sf/acre x .216 feet = 519,090 cubic feet x 7.48 gal/cf = 3,882,793 gallons. That volume in cubic yards is 19,225 cy. Over 3,000,000 cubic yards of gravel has been excavated from the pit leaving a

depression that will more than contain a 25 year event. The earthen berm channeling and containing potential rainfall runoff on the site is oversized to contain this event.

2.3 Floodplains

This disposal site is located well outside any floodplains existing in Utah Valley as can be seen by the Topographic/Location map in the Figures section. A FEMA Flood Plains Map Index for South Utah County was located on line and is attached in the Figures section of the Permit Application. The Santaquin area map designated as map #4955170470 I found that - none was available FEMA confirmed that the classification of this area is class X because the flood potential is so low and accordingly they have not bothered to create a map because the potential is so low.

2.4 Wetlands

There are no wetlands located in the vicinity of the site. The landfill will not affect any wetland area or any wildlife associated with wetlands. See Appendix "C" Wetlands survey by Intermountain Ecosystems.

2.5 Groundwater

Groundwater at the site has never been encountered even though the mining of gravel has currently extended to a depth of 50 feet below natural ground elevation. A large excavator was used to excavate a test hole in the bottom of the gravel pit to determine the static groundwater level. No water was found. The elevation of the gravel pit bottom ranges from approximately 4800 feet above MSL to 4960 feet above MSL. A search of the Division of Water Rights records shows that there are 2 active wells located somewhat near the site. One is about 1750 feet due north of the site and its static water level is 330' below the surface. The other one is about 1750 feet west of the site and the static water level is 620 feet below the surface. Adjusting for elevational differences puts the water table at the site at about 250 feet below the bottom of the pit. A map showing these well locations and their accompanying well logs are included in the Figures attachment.

2.6 Airports

The closest airport to the proposed site is the Nephi Airport. The Nephi Airport is located 14 miles south of the Sunroc landfill site.

3.0 Plan of Operations

The purpose of the plan of operation is to give a narrative of the routine operation of the Sunroc Landfill. The intent of the Plan of Operation is to provide the accurate description of the routine operations and procedures while providing flexibility for modifications which may be required to compensate for operational changes.

3.1 Class IVb Landfill

The landfill site will be located in the mined out and spent portions of the Santaquin gravel pit. Prior to the removal of the sand and gravel, the topsoil was stripped from the area and stockpiled on site to create a visual berm or barrier along the frontage road or east side of the pit. The landfill operation will be to place the waste into the previously excavated pit starting from the north end and progressing southward as each successive phase of the pit is mined out filling the pit in 18" compacted lifts to an elevation roughly equal to the preexisting natural elevation of the original ground. The waste materials will be placed with either bull dozers and/or loaders and compacted with either sheep's foot and/or vibratory compactors. As the waste progressively fills the pit area, a minimum of 6" of topsoil will be placed as a final covering to accommodate revegetation. A blend of wheat grass seeds will be broadcast or drilled into the newly replaced topsoil to revegetate the area for future grazing.

3.2 Waste Handling Procedures

Landfill operations will be under the supervision of the Sunroc Northern Area Pit Manager, Wayne Humphries. He will direct where waste materials are to be placed and what materials are allowed to be brought into the pit. Also a scale person will weigh each load coming into the landfill and create a ticket for that load verifying that it is one of the listed acceptable waste materials that is allowed in this landfill. The operator placing the waste materials will conduct ongoing inspection to assure compliance with the limitations of this permit. No prohibited hazardous or PCB containing waste will be allowed on site. Water will be applied to the roads and cover material as required to control fugitive dust.

3.3 Litter Control

The prevailing winds at the landfill site are generally from the south- southwest. The type of waste accepted at the site has a low amount of litter content that can be carried by the wind. Minimizing the open face of the landfill and placing cover over the material as the fill progresses will help control litter. As needed, employees will pick up any scattered litter at the landfill.

3.4 Recycling Program

Sunroc will be recycling most asphalt and some concrete that comes into the pit. They will be accumulated and stockpiled in the pit for future processing and sale. These materials are crushed up into RAP or recycle base and sold as road surfacing materials.

3.5 Alternative Waste Handling or Disposal Plan

In the event that disposal of waste is required and the landfill is unable to accept the waste due to emergency or becoming inaccessible, the waste will be hauled and placed in the Payson City Landfill located approximately 5 miles north of the site. Brent Sumsion spoke to Justin, Payson City Landfill Employee in person at the Landfill on August 15th and was informed that the Payson City Landfill is a public landfill and Sunroc may dump at that landfill at any time the Santaquin Pit landfill may not be able to accept waste material.

3.6 Landfill Inspection and Monitoring Schedule

The schedule for inspection and monitoring of the landfill facilities to ensure the proper operation and maintenance will be as follows:

Site Inspection / Monitoring Activity	Frequency
Access road condition and maintenance.	Dailey while operating and as needed.
Fence inspection and maintenance.	Monthly.
Drainage channels condition.	Monthly.
Compaction testing.	Weekly during normal operating periods.
Landfill equipment maintenance.	As per manufacturers specifications.
Post closure and final cover.	Semi-Annual

The Sunroc Landfill Checklist is attached in Appendix D Correspondence section

3.7 Equipment

Sunroc owns and fleet of excavation and hauling equipment that it uses for its aggregate and construction business. That same equipment will be used for the placement of waste materials and the maintenance of facilities at the landfill.

3.8 Procedures for Controlling Disease Vectors

Exclusion of specific types of waste from a Class IVb landfill is required to control disease vectors and the subsequent spread of disease. This includes special wastes such as infectious waste and liquid waste. No prohibited wasted and no dead animals will be received for disposal at this landfill.

3.9 Training and Safety Plan for Site Operation

Each Employee who works with solid waste at the landfill will be trained and have a working knowledge of basic operational techniques and maintenance necessary to operate and maintain the landfill facility in a manner that protects human health, safety and protects the environmental quality. Training will be accomplished through on the job training and available training videos.

3.10 Emergency Plans

Emergency plans are in place to minimize hazards to human health or environment from any unplanned sudden on non-sudden discharge to the air soil or water. The provisions of this plan shall be carried out immediately when there is an emergency situation or release that could threaten human health or the environment. Emergency evacuation of the site should not be necessary given the nature of the waste materials accepted and processed at the site. The probability of an explosion, fire or toxic vapor from an emergency situation is very remote.

a. Fire or Explosion

Due to the nature of the waste materials stored and processed at the site, the possibility of a fire or explosion at the site is remote. If a fire or explosion were to occur, the primary means of fire control will be the isolation and exclusion of the hot or burning material will be separated from other material and covered with soil

using onsite earth moving equipment. If necessary, this action will be supported by additional equipment owned by Sunroc.

Small fires maybe extinguished with fire extinguishers located in on site vehicles and equipment. If a fire is not controllable with onsite equipment the Santaquin Fire Department will be called. This suppression effort will be supported by other fire departments within Utah County as needed.

b. Explosive Gas

Due to the type of material received, the size and arid nature of the site, explosive landfill gas is not expected to be generated.

3.11 Record Keeping

The following records will be kept on site at the landfill:

1. A daily operating record containing the weights or volumes of waste, the number of vehicles entering the landfill and the types of waste received.
2. Training records of the landfill personnel.
3. Operations inspection reports.
4. Copy of the Class IV Permit.
5. Landfill Operations Plan.
6. Permit Application.
7. Financial Assurance Documentation.

Copies of suggested record keeping forms are attached in Exhibit "E".

3.12 Reporting

An annual report will be submitted to the Executive Secretary by March 1st of each year for the previous year of facility operation. At a minimum, the report will contain:

- * Name and address of the facility.
- * Calendar year covered by the report.
- * Quantity of waste in tons or volume in cubic yards with estimated in-place density in pounds per yard.

4.0 Engineering Report

The design and permitting of the Sunroc Landfill were based upon the State of Utah Solid Waste Rules. Existing engineering and scientific data were reviewed and incorporated into the design. Site investigations were performed to evaluate the site and surrounding area. Based upon the investigations and available information, this facility will have minimal impact to human health, safety and environmental quality of the surrounding area.

The site is located in an area of ongoing sand and gravel operations. Up gradient of the site are gravel pits which minimize or prevent any overland surface water from reaching the site. Impact to groundwater will be insignificant or non-existent.

The average annual precipitation is 18 inches per year. The operation and design of the landfill will provide necessary controls to minimize an long term impacts to the surrounding area. The closure and post-closure designs will minimize impact to the area.

Required maps, cell design and related information are located in the Correspondence section of this submittal.

4.1 Location Standards

The landfill site is located in a mining and grazing area of Utah-Juab County with a land use designation of M-G. There is a storage building at the Santaquin Gun Club immediately to the west. This is the only structure within 1,700 feet of the landfill site. To the north and southwest are existing gravel pit operations, the freeway is on the east side and grazing property to the south so with all the neighboring properties being compatible uses it is not expected that there will be any complaints with noise or dust.

4.2 Geology

Utah Valley is a long fairly wide valley bounded on the south end by the Wasatch Mountains on the east and the Tintic Mountains to the west. The valley topography was shaped by Pleistocene Lake Bonneville and by stream activity. Lake Bonneville occupied Jordan Valley, Utah Valley and most other valleys in western Utah during the Late Pleistocene time. The sediments deposited in this ancient lake have been divided into three formations: Alpine (oldest), Bonneville , and Provo (youngest). These sediments are unconsolidated, but locally are loosely cemented by calcium carbonate. Currents in Lake Bonneville and contemporaneous stream flows from the mountains combined to form spits, beaches, bars and huge deltas such as the one at the mouth of Santaquin Canyon. Pre-Lake Bonneville alluvial fans underlie most of these deposits and project above them on the mountain flanks. Lake bottom sediments form a nearly flat plain in the central parts of Utah and Goshen valleys.

In northern Juab Valley large coalescing alluvial fans are present on both sides of this valley. Those on east side are extremely large and extend almost to the center of the valley. Two landslides are present here; the northernmost, in the NE ¼ sec. 27, T. 10 S., R. 1 E., is about one-half mile wide at the toe and consist of jumbled debris of the North Horn Formation. Highway I-15 cuts through the toe of the landslide. About two mile south is a large hummocky debris slide at Mendenhall Canyon.

The lowest elevation in northern Juab Valley is 4,877 feet at the Mona Reservoir. It is thought that the valley was occupied by only the highest stages of Bonneville; the Alpine and Bonneville. Alpine sediments were mapped along the center of the valley but no shoreline deposit of either formation could be found.

The structure of the northern Juab Valley is presumed to be graben that consists of a down dropped east limb of an anticline. Foutz (1960, p. 29) states that on the west side of the valley, the Humbug Formation (Mississippian)dips to the east and that on the east side of the valley more Humbug outcrops have about the same attitude. The fault along the east side of the

valley is quite obvious, but the only evidence for a fault on the west side is the vertical stratigraphic displacement. Foutz (1960, p. 29) mentions that at Mendenhall canyon the northward –trending Wasatch fault is deflected to the northeast and crosses Santaquin Canyon about three miles southeast of the town of Santaquin. (Fitzhugh D. Davis, Utah Geological and Mineral Survey Map of Southern Wasatch Front, Utah – April 1983)

4.3 Seismic

The Wasatch Fault, the major high-angle normal fault in the area, has been described repeatedly. In general, the fault is a range-front fault that trends north and truncates the west flanks of both the southern Wasatch Range and the San Pitch Mountains. The fault is active and is marked by evidence of repeated movement. Modern scarps offset surficial deposits, and these scarps are locally expressed as triangular facets that delineate the mountain front, indicating that the Wasatch fault has been reactivated time and time again. Swan and his colleagues (1980) estimated that the recurrence interval of moderate-to large – magnitude earthquakes along the entire Wasatch fault zone may be on the order of 50 to 430 years to be reasonable range for the average recurrence interval of a surface faulting earthquake along the entire Wasatch fault zone.” U.S. Geological Survey, Miscellaneous Investigations Series 1937, Geologic Map of Utah and Juab Counties by Irving J. Witkind and Malcolm P. Weiss.

The Wasatch Fault lies approximately ½ mile to the east of the landfill.

4.5 Groundwater

Groundwater at the site has never been encountered even though the mining of gravel has extended to a depth of 50 feet below natural ground elevation. A large excavator was used to excavate a test hole in the bottom of the gravel pit to determine the static groundwater level. No water was found. The elevation of the gravel pit bottom ranges from approximately 4780 feet above MSL to 4960 feet above MSL (see X-Sectional Drawing in Figures Section). A search of the Division of Water Rights records shows that there are 2 wells located somewhat near the site. One is about 1750 feet due north of the site and its static water level is 330’ below the surface. The other one is about 1750 feet west of the site and the static water level is 620 feet below the surface. Adjusting for elevation difference puts the water table at the site at about 250 feet below the future bottom of the pit. A map showing these well locations and their accompanying well logs are included as one of the Figures.

4.6 Wetlands, Cultural and Endangered Species

There are no wetlands located in the vicinity of the site. The landfill will not affect any wetland area or any wildlife associated with wetlands. See Appendix “C” Wetlands survey by Dr. Ron Kass of Intermountain Ecosystems. He also reported no endangered species are located in the land fill area. All of the land has been historically and recently disturbed and is currently an active gravel pit. No cultural sites were found to be present. A copy of the Big Horn cultural study is attached as Appendix “C”.

4.7 Solid Waste Management Plan

It is anticipated that the landfill will continue to receive waste for over 50 years. The volume of waste handled is anticipated to average approximately 200 tons per day for 250 days out of the year. The capacity of the Sunroc landfill is calculated to be 20,000,000 cubic yards. The total area of the site is approximately 55 acres. The waste will be disposed of by filling the excavated gravel pit with waste starting in the north end of the pit and proceeding south. As the waste is deposited it will be covered with a minimum of 6 inches of topsoil and then reseeded with a variety of wheat grass seed.

4.8 Cell Design and Development

The "cell" that will be utilized is partially existing and largely under development as part of the gravel pit mining operation. The cell will vary in depth from 0 to 250 feet below original ground elevation. The waste will be deposited into the cell starting at the north end and proceeding southward.

4.9 Storm-water Run-off Control

There are no perennial streams adjacent to the site. Summit Creek is the closest perennial stream bed and it lies 2 miles to the north east. The gravel pit and landfill area have been graded such that all storm water is contained on site and absorbed by the existing soils. Drainage structures to control and contain the runoff of the 25 year/24 hour precipitation event has been constructed as part of the historic sand and gravel operation and consist of a three foot berm to contain any water around the perimeter of the site. Utilizing the Point Precipitation Frequency Estimates form NOAA Atlas 14, the 25 year/24 hour precipitation is estimated to be 2.6 inches. . The earthen berm channeling and containing potential rainfall runoff on the site is oversized to contain this event.

4.10 Closure and Post Closure Design and Maintenance

The closure and post-closure design, construction and maintenance will be performed to meet the requirements of the State of Utah Solid Waste Rules. The closure of the Sunroc Landfill will minimize the need for further maintenance, minimize threats to human health and environment and from post closure escape of solid waste constituents.

The closure design and cost of closure maintenance for this Class IVb site will include final grading of the fill to match the existing ground contours. The site will then be covered with a minimum of 24" of clean fill cover which includes a minimum of 6 inches of top soil. The area will then be seeded with perennial wheat grasses using 14 pounds of pure live seed per acre.

Runoff from the landfill is not expected to occur due to the design of the landfill. The landfill will be designed so that all run-on and run-off will be redirected with diversion ditches into sediment ponds, where the water will be evaporated. After closure, the absorption and evapotranspiration by the vegetation layer and the absence of any

appreciable run-on will ensure the control of runoff. Once the vegetation layer growth is established, most storm events will not result in significant direct run-off from the landfill surface area. Nonetheless, significant percolation through the cover layer is unlikely, thus leachate or seepage from the heap is minimal.

Based on volume and tonnage calculations provided by Sunroc, the estimated life of the currently permitted landfill cells is approximately 50 years from the time of this submittal.

Within 60 days of scheduled completion of the landfill, Sunroc will notify DSHW. Closure activities will commence within 30 days after receipt of the final volume of waste, and will be completed within 180 days of the start time. Sunroc will notify DSHW upon completion of closure to schedule the final inspection by regulatory agencies.

4.11 Volume Capacity

The total volume capacity of the Class IVb landfill was calculated using autCAD Civil 3D modeling calculations. The total volume capacity was calculated to be 23,000,000 cubic yards.

4.12 Final Inspection

A final inspection will be performed at the termination of landfill activities at the Sunroc Landfill site. The final inspection will determine if the landfill meets all closure requirements as outlined in the permit and closure plans.

4.13 Recording

Within 60 days of certification of closure, Sunroc will submit a plat and statement of fact concerning the location of the disposal site to the Utah County Recorder to be recorded as part of the record of title. Sunroc will also submit a copy of the record of title to the Executive Secretary.

4.14 Post Closure Monitoring

Semiannual inspections of the site including inspection of the final cover will be performed. A Inspection Report (attached in Correspondence Section) will be filled out by the inspector each time the site is inspected. Inspection items will include but not be limited to settlement areas requiring additional fill, erosion control and repair and adequate soil cover. Also, noxious weeds will be sprayed and eliminated by Sunroc maintenance crews until the site vegetation has been restored and grazing of animals or commercial development of the property can be initiated.

4.15 Post Closure maintenance

Post closure maintenance will consist of maintaining the final cover by reseeding areas that have not re-vegetated well and spraying noxious weeds to prevent them from spreading. Settlement

areas will be filled in and re-graded and reseeded. These maintenance activities will continue for a period of 30-years from the date of final reclamation.

4.16 Notice of Intent

Administrative Rule R315-310-3(2)(ii) requires that a notice of intent to apply for a solid waste landfill permit be sent to all property owners within 1000 feet of a proposed facility. A copy of the letter sent and a copy of the Certified Mail receipts listing the property owners is attached in the Correspondence section.

5.0 Financial Assurance Plan

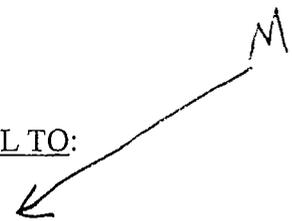
Sunroc has an existing reclamation bond in the amount of \$103,447.31 with Utah County for the reclamation of the gravel pit area. The bond is provided by Travelers Casualty and Surety Co. of America. A copy of the bond is attached as "Exhibit "I". The pit is inspected annually by the Utah County Planning and Zoning Department for compliance and the bond is adjusted every 7 years to account for newly disturbed areas and increased costs of reclamation.

Closure and post-closure costs and reclamation surety for this C & D Landfill operation is in the amount of \$462,468 will be in the form of a Corporate Surety or Guarantee. The Surety Documents are in Appendix F, and the Corporate Financial Test is in Appendix G.

Appendix A
Deeds

APPENDIX A

17/4



WHEN RECORDED, MAIL TO:

Ervin R. Holmes, Esq.
Stoel Rives LLP
201 South Main Street, Suite 1100
Salt Lake City, Utah 84111-4904

ENT 19732:2003 PG 1 of 4
RANDALL A. COVINGTON
UTAH COUNTY RECORDER
2003 Feb 10 8:46 am FEE 17.00 BY SFS
RECORDED FOR STOEL RIVES LLP

00230353 Bk 0447 Pg 0131
CRAIG J. SPERRY, JUAB COUNTY RECORDER
2003 FEB 27 11:07 AM FEE \$17.00 BY OPZ
FOR: STOEL RIVES LLP

CORRECTION WARRANTY DEED

(Santaquin Property – Utah County)

H. E. DAVIS & SONS ROCK PRODUCTS, INC., a Utah corporation, also known as H. E. DAVIS ROCK PRODUCTS, INC., Grantor, of 525 West Arrowhead Trail, Spanish Fork, Utah 84660, hereby CONVEYS AND WARRANTS to H. E. DAVIS CONSTRUCTION, INC., a Utah corporation, Grantee, of 252 West Center Street, Orem, Utah 84059, for the sum of Ten and No/100 Dollars (\$10.00), and other good and valuable consideration, the following described real property in Utah County and Juab County, State of Utah:

Parcel 1:

A PORTION OF THE SW1/4 AND THE SE 1/4 OF SECTION 15, TOWNSHIP 10 SOUTH, RANGE 1 EAST, SALT LAKE BASE & MERIDIAN, LOCATED IN UTAH AND JUAB COUNTIES, STATE OF UTAH, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTH 1/4 CORNER OF SECTION 15, T10S, R1E, S.L.B.&M.; THENCE S89°31'57"W ALONG THE SECTION LINE 668.12 FEET TO THE EASTERLY RIGHT-OF-WAY LINE OF THE UNION PACIFIC RAILROAD; THENCE ALONG SAID RIGHT-OF-WAY: NORTHWESTERLY ALONG THE ARC OF A 3,048.79 FOOT RADIUS NON-TANGENT CURVE (RADIUS BEARS: N73°20'32"E) 737.11 FEET THROUGH A CENTRAL ANGLE OF 13°51'09" (CHORD: N9°43'52"W 735.31 FEET); THENCE N89°38'37"E 196.91 FEET; THENCE NORTH 211.42 FEET; THENCE N26°32'05"E 700.00 FEET; THENCE N63°27'55"W 548.80 FEET TO SAID RAILROAD RIGHT-OF-WAY, THE PREVIOUS 4 (FOUR) COURSES ALONG LANDS OF THE SANTAQUIN GUN CLUB, INC. AS DESCRIBED IN SPECIAL WARRANTY DEEDS RECORDED AS ENTRY NO. 29307 & 29308:2000 ACCORDING TO THE OFFICIAL RECORDS OF UTAH COUNTY; THENCE N1°25'24"E ALONG SAID RAILROAD RIGHT-OF-WAY 280.94 FEET; THENCE S89°06'00"E 685.77 FEET; THENCE S0°06'19"E 638.39 FEET; THENCE N48°27'55"E 323.10 FEET; THENCE S89°56'17"E 924.00 FEET TO THE WESTERLY RIGHT-OF-WAY LINE OF A FRONTAGE ROAD ON THE WESTERLY SIDE OF INTERSTATE 15; THENCE S28°22'55"W ALONG SAID RIGHT-OF-WAY 44.12 FEET; THENCE SOUTHWESTERLY ALONG THE ARC OF A 5,929.58 FOOT RADIUS NON-TANGENT CURVE (RADIUS BEARS: S59°20'57"E) 1,741.46 FEET THROUGH A CENTRAL ANGLE OF 16°49'38" (CHORD: S22°14'14"W 1735.21 FEET) TO THE SOUTH LINE OF SECTION 15;

2
1

THENCE S89°31'57"W ALONG THE SECTION LINE 408.32 FEET TO THE POINT OF BEGINNING.

00230353 Ek 0447 Pg 0132

Parcel 2:

A PORTION OF THE SW1/4 OF SECTION 15, TOWNSHIP 10 SOUTH, RANGE 1 EAST, SALT LAKE BASE & MERIDIAN, LOCATED IN JUAB COUNTY, STATE OF UTAH, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT SOUTHWEST CORNER OF SECTION 15, T10S, R1E, S.L.B.&M.; THENCE N1°26'04"W ALONG THE SECTION LINE 2,725.29 FEET TO THE WEST 1/4 CORNER OF SAID SECTION; THENCE S89°42'15"E ALONG THE 1/4 SECTION LINE 62.48 FEET; THENCE S31°23'47"E 67.52 FEET; THENCE S36°31'35"E 396.51 FEET; THENCE S31°19'11"E 201.03 FEET; THENCE S35°51'49"E 155.33 FEET; THENCE S33°17'14"E 117.98 FEET; THENCE S33°28'51"E 82.55 FEET; THENCE S45°34'02"E 89.28 FEET; THENCE S41°02'50"E 90.99 FEET; THENCE S61°34'44"E 48.32 FEET; THENCE S62°08'32"E 94.16 FEET; THENCE S67°00'36"E 48.32 FEET; THENCE S68°32'14"E 113.09 FEET; THENCE N87°08'15"E 80.10 FEET; THENCE S76°39'17"E 140.80 FEET; THENCE S67°55'10"E 285.97 FEET; THENCE S62°24'35"E 180.77 FEET TO THE WESTERLY RIGHT-OF-WAY LINE OF THE UNION PACIFIC RAILROAD; THENCE S1°25'24"W 435.06 FEET; THENCE ALONG THE ARC OF A 3,248.79 FOOT RADIUS CURVE TO THE LEFT 966.67 FEET THROUGH A CENTRAL ANGLE OF 17°02'53" (CHORD: S7°06'52"E 963.10 FEET) TO THE SOUTH LINE OF SECTION 15; THENCE S89°31'57"W ALONG THE SECTION LINE 1,720.96 FEET TO THE POINT OF BEGINNING.

Tax ID Nos. for all parcels: 32-021-0016; 32-021-0013; 32-021-0010; 32-021-025; 32-021-0027; and XB-1378

THIS CONVEYANCE IS MADE SUBJECT TO ONLY THE FOLLOWING:

- (a) General real property taxes assessed for the year 2002 and periods thereafter.
- (b) The effect of the 1969 Farmland Assessment Act, to the extent of a five (5) year roll-back provision with regard to assessment and taxation for property properly and appropriately included in that certain Application for Assessment and Taxation of Agricultural Land, recorded October 14, 1975 as Entry No. 20617, in Book 1438, at Page 443 of Official Records of the Utah County Recorder.
- (c) Said property is located within the boundaries of Utah County and its service districts and is subject to charges and assessments levied thereunder after the date of this deed.
- (d) An Easement created in favor of Utah Power and Light Company by Instrument recorded October 9, 1912 as Entry No. 4165, in Book 137, at Page 33 of the official records of the Utah County Recorder.

- (e) With regard to Parcel 1 only, a reservation of mineral rights (excluding sand and gravel for use for building or construction purposes) with right-of-ways as reserved in Instrument recorded January 5, 1948 as Entry No. 578, in Book 493, at Page 239 of Official Records of the Utah County Recorder.
- (f) Covenants and conditions pertaining to access set forth and/or reserved in that certain Quit Claim Deed recorded December 12, 1963 as Entry No. 16949, in Book 957, at Page 417 of Official Records of the Utah County Recorder.
- (g) Right-of-way and easement over the easterly five feet of Parcel 1 granted to PacifiCorp, an Oregon corporation, by Instrument recorded May 23, 1997, as Entry No. 39638, in Book 4277, at Page 291 of Official Records of the Utah County Recorder.
- (h) Covenants and restrictions set forth in Trustee's Deed recorded May 23, 1997, as Entry No. 66009, in Book 4690, at Page 1 of Official Records of the Utah County Recorder.
- (i) Covenants and restrictions set forth in Trustee's Deed recorded July 1, 1998 as Entry No. 66009, in Book 4690, at Page 1 of Official Records of the Juab County Recorder, and Entry No. 66010, in Book 4690, at Page 4 of Official Records of the Juab County Recorder.
- (j) Parcel 2 is subject to an Easement, dated March 7, 1947 in favor of the Mountain States Telephone and Telegraph Company recorded March 25, 1947 as Entry No. 75365, in Book 132, at Page 540 of Official Records of the Juab County Recorder.
- (k) Parcel 2 is subject to a Joint Resolution, dated July 5, 1950, by and between the Board of County Commissioners of Juab and the Board of County Commissioners of Utah County, to establish a boundary line for the purpose of tax assessment in a portion of Township 10 South, Range 1 East. Said Resolution recorded August 29, 1950 as Entry No. 80981, in Book 144, at Page 338 of Official Records of the Juab County Recorder.
- (l) Parcel 2 is subject to an Easement in favor of Utah Power and Light Company recorded September 27, 1978 as Entry No. 123566, in Book 218, at Page 299 of Official Records of the Juab County Recorder.
- (m) Parcel 2 is subject to a purported conveyance of mineral rights set forth in a Quit Claim Deed recorded October 2, 1985 as Entry No. 28613, in Book 2250, at Page 322 and in Quit Claim Deed recorded October 2, 1985 as Entry No. 28614, in Book 2250, at Page 324 of Official Records of the Utah County Recorder.
- (n) Encroachments, easements, rights-of-way or other matters disclosed by that certain ALTA/ACSM Land Title Survey prepared by Dennis P. Carlisle of LEI Consulting Engineers and Surveyors, Inc., on March 15, 2002, designated as Project No. 2002-125.

THIS CORRECTION WARRANTY DEED IS MADE AND EXECUTED BY GRANTOR FOR THE PURPOSE OF RESTATING THAT CERTAIN WARRANTY DEED, DATED APRIL 1, 2002 AND RECORDED WITH THE UTAH COUNTY RECORDER ON APRIL 2, 2002 AS ENTRY NO. 37067, IN BOOK 2002, AT PAGES 1-4 AND THEREBY CORRECTING AN ERROR IN THE LEGAL DESCRIPTION OF THE SUBJECT PROPERTY.

WITNESS the hand of said Grantor this 28th day of January, 2003 to have an effective date of the 1st day of April, 2002.

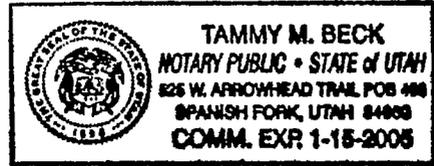
H. E. DAVIS & SONS ROCK PRODUCTS,
INC., a Utah corporation, aka H. E. DAVIS
ROCK PRODUCTS, INC.,

By Earl M. Davis
Earl M. Davis
President

STATE OF UTAH)
COUNTY OF Utah) : ss.

The foregoing instrument was acknowledged before me this 28th day of January, 2003 by EARL M. DAVIS, the President of H. E. DAVIS & SONS ROCK PRODUCTS, INC., a Utah corporation, also known as H. E. DAVIS ROCK PRODUCTS, INC.

Tammy M. Beck
NOTARY PUBLIC



APPROVED AND CONSENTED TO BY:

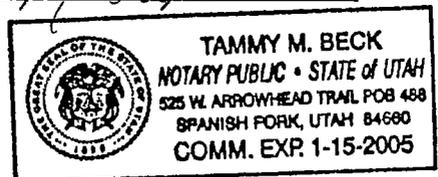
H. E. DAVIS CONSTRUCTION, INC.,
a Utah corporation,

By Kay J. Christofferson
Kay J. Christofferson
President

STATE OF UTAH)
COUNTY OF Utah) : ss.

The foregoing instrument was acknowledged before me this 28th day of January, 2003 by KAY J. CHRISTOFFERSON, the President of H. E. DAVIS CONSTRUCTION, INC., a Utah corporation.

Tammy M. Beck
NOTARY PUBLIC



WHEN RECORDED, MAIL TO:

Ervin R. Holmes, Esq.
Stoel Rives LLP
201 South Main Street, Suite 1100
Salt Lake City, UT 84111

ENT 164342:2006 pg 1 of 3
RANDALL A. LOVINGTON
UTAH COUNTY RECORDER
2006 Dec 06 11:43 am FEE 15.00 BY ADS
RECORDED FOR SUNROC CORPORATION

**AFFIDAVIT OF MERGER
(Utah County)**

STATE OF UTAH)
 : ss.
COUNTY OF WASHINGTON)

RHYS WEAVER, being first duly sworn, deposes and says that he is the President of Sunroc Corporation, a Utah corporation, and further deposes and states as follows:

1. Sunroc Corporation is a business corporation organized and existing pursuant to the laws of the State of Utah.

2. On January 1, 2006, H. E. Davis Construction, Inc., a business corporation organized and existing pursuant to the laws of the State of Utah, was merged into Sunroc Corporation, a business corporation organized and existing pursuant to the laws of the State of Utah.

3. Sunroc Corporation, as the surviving corporation of the merger between H. E. Davis Construction, Inc. and Sunroc Corporation, and pursuant to Utah Code § 16-10A-1106(1)(B) became, by operation of law, the owner of all real estate and other property owned by H. E. Davis Construction, Inc., including without limitation the following real property located in Utah County, State of Utah:

Parcel 1:

A PORTION OF THE SW1/4 AND THE SE 1/4 OF SECTION 15, TOWNSHIP 10 SOUTH, RANGE 1 EAST, SALT LAKE BASE & MERIDIAN, LOCATED IN UTAH AND JUAB COUNTIES, STATE OF UTAH, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

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N89°38'37"E 196.91 FEET; THENCE NORTH 211.42 FEET; THENCE N26°32'05"E 700.00 FEET; THENCE N63°27'55"W 548.80 FEET TO SAID RAILROAD RIGHT-OF-WAY, THE PREVIOUS 4 (FOUR) COURSES ALONG LANDS OF THE SANTAQUIN GUN CLUB, INC. AS DESCRIBED IN SPECIAL WARRANTY DEEDS RECORDED AS ENTRY NO. 29307 & 29308:2000 ACCORDING TO THE OFFICIAL RECORDS OF UTAH COUNTY; THENCE N1°25'24"E ALONG SAID RAILROAD RIGHT-OF-WAY 280.94 FEET; THENCE S86°06'00"E 685.77 FEET; THENCE S0°06'19"E 638.39 FEET; THENCE N48°27'55"E 323.10 FEET; THENCE S89°56'17"E 924.00 FEET TO THE WESTERLY RIGHT-OF-WAY LINE OF A FRONTAGE ROAD ON THE WESTERLY SIDE OF INTERSTATE 15; THENCE S28°22'55"W ALONG SAID RIGHT-OF-WAY 44.12 FEET; THENCE SOUTHWESTERLY ALONG THE ARC OF A 5,929.58 FOOT RADIUS NON-TANGENT CURVE (RADIUS BEARS: S59°20'57"E) 1,741.46 FEET THROUGH A CENTRAL ANGLE OF 16°49'38" (CHORD: S22°14'14"W 1735.21 FEET) TO THE SOUTH LINE OF SECTION 15; THENCE S89°31'57"W ALONG THE SECTION LINE 408.32 FEET TO THE POINT OF BEGINNING.

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Tax ID Nos. for all parcels: 32-021-0016; 32-021-0013; 32-021-0010; 32-021-025; 32-021-0027; and XB-1378

APPENDIX B



**BIGHORN ARCHAEOLOGICAL
CONSULTANTS, LLC**

1712 NORTH 320 WEST, OREM, UTAH 84057
(801) 368-8091 (801) 437-1736 FAX

Report Number 14-13

**A Cultural Resource Inventory for the Sunroc Santaquin Pit Project
south of Santaquin, Juab County, Utah**

Prepared by

Syanna T. Madsen
Bighorn Archaeological Consultants, LLC

Prepared for

Sunroc Corporation
730 North 1500 West
Orem, Utah 84057

Federal Antiquities Permit Number 11UT81316
Utah State Project Number U14-HO-0119p

March 2014

Abstract

Project Title: A Cultural Resource Inventory for the Sunroc Santaquin Pit Project south of Santaquin, Juab County, Utah

Project Description: The project consists of a new pit located west of the existing Sunroc Pit south of Santaquin, Utah.

Location: The proposed project area is located 2.2 miles south-southwest of Santaquin, Juab Utah County, Utah within T 10S R 1E, Section 15 (USGS 7.5' Topographic Quad: Santaquin, Utah).

Number of Surveyed Acres: 73.8 acres

Number of Sites: No new cultural sites were encountered during the course of this project and no previously recorded sites were present within the direct APE. Eleven previously recorded sites and nine previously inventoried projects are present within a mile of the project area. One site (42JB1041/UT1029) is the historic Utah Southern Railroad located between the existing Sunroc Santaquin Pit and the proposed new Sunroc Santaquin Pit. As proposed, the new area will not impact the railroad.

List of Register Listed Properties: N/A

List of Register Eligible Properties: N/A

List of Ineligible Sites: N/A

List of Unevaluated Sites: N/A

Comments: Examination of the proposed Santaquin pit revealed no new cultural sites within the inventory area. A file search and literature review for reported projects and previously recorded cultural sites in the area revealed 11 archaeological sites and nine previously inventoried projects are located within one mile of the project area. One site (42JB1041/UT1029) is the historic Utah Southern Railroad located between the existing Sunroc Santaquin Pit and the proposed new pit. It has been previously determined eligible to the National Register of Historic Places (NRHP). However, as proposed the new area will not impact the railroad. Two isolated finds were identified in the project area. Thus, the project should result in a finding of no effect to historic properties as defined in 36 CFR § 800.5(a)(1).

Table of Contents

Abstract ii
Table of Contents iii
List of Figures iii
List of Tables iii
Introduction 1
Project Location 1
Environment 1
Cultural Context 1
Previous Research 4
Inventory Methods 5
Inventory Results 5
Summary and Recommendations 6
References Cited 7

Appendix A - Aerial and GLO Maps
Appendix B - Isolated Finds

List of Figures

Figure 1- Project Location Map 2
Figure 2- General Project Overview of Proposed New Pit 3
Figure 3- General Project Overview of Proposed New Pit and Existing Pit 3

List of Tables

Table 1. Cultural Phases of the Eastern Great Basin 3
Table 2. Previous Cultural Resource Inventories within One Mile of the Proposed Project 4
Table 3. Previously Recorded Cultural Sites within One Mile of the Proposed Project 4
Table 4. Isolated Finds 6

Introduction

Bighorn Archaeological Consultants, LLC, (Bighorn) has completed a cultural resource inventory for the proposed Santaquin Pit Project south of Santaquin, Juab and Utah Counties, Utah. The project was undertaken at the request of Sunroc Corporation. The Sunroc Santaquin Pit Project is located approximately 2.4 miles southwest of Santaquin, Utah. The proposed parcel will be used as a new and extended Sunroc Corporation Santaquin Pit. Bighorn completed the inventory under Utah Project Number U14-HO-0119p. Fieldwork was completed by Syanna T. Madsen on 5 March 2014.

Project Location

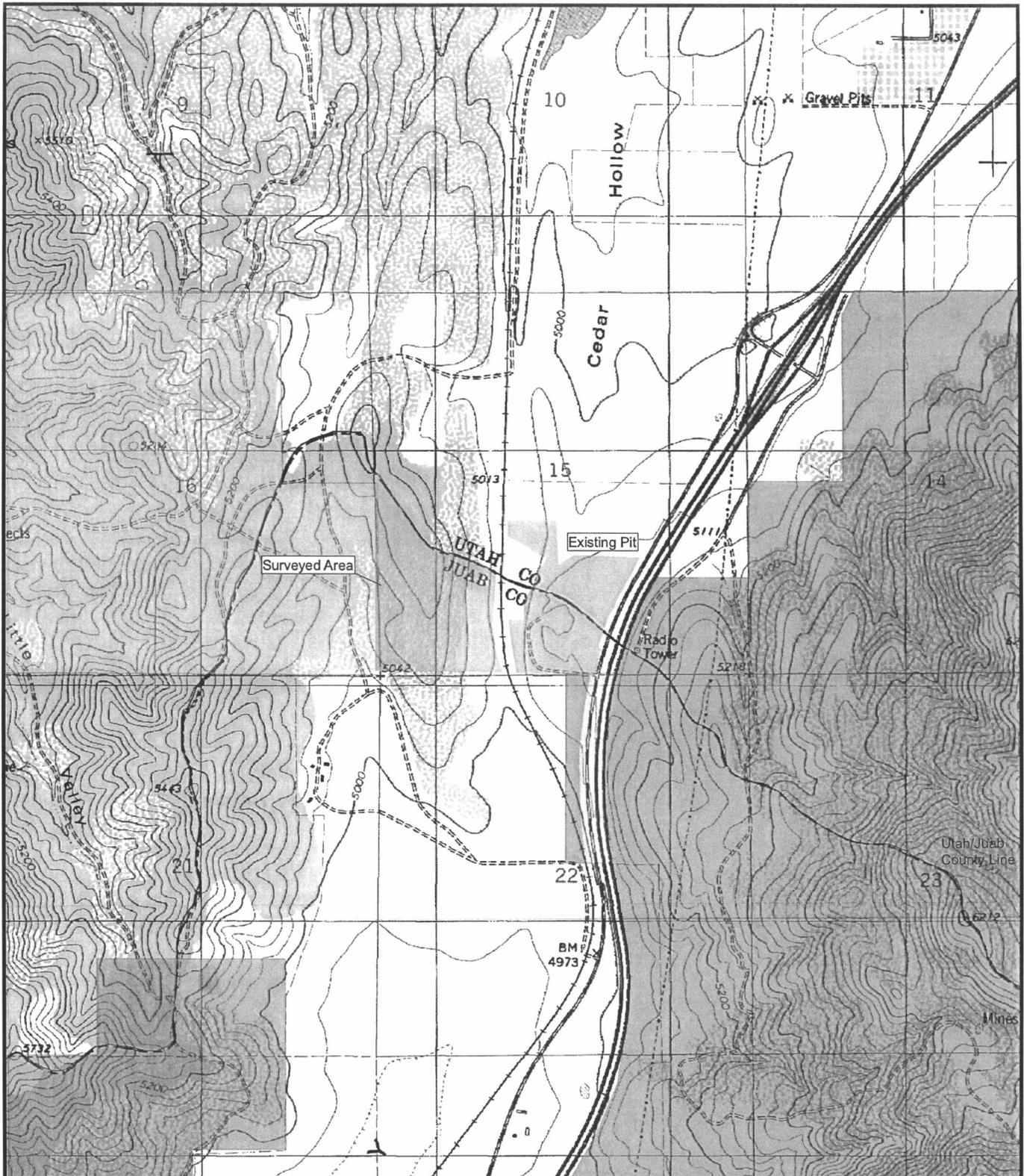
The area of potential effect (APE) is located southwest of Santaquin, Utah on privately held lands (Figure 1). Specifically, the APE is within T 10S R 1E, Section 15 (USGS Santaquin, Utah 7.5' Topographic Quadrangle). The parcel measures 840 by 1,353 meters and is within a 73.8-acre area.

Environment

The proposed project is located within the Wasatch Front Valleys physiographic subdivision of Utah between 5,080 and 5,140 feet elevation above sea level. The area is characterized as five individual valleys separated from each other by small spurs extending west from the Wasatch Range. The eastern edge of the valleys is characterized by a sharp rise to the Wasatch Range along the Wasatch Fault Zone (Stokes 1987:252-253). Vegetation within the project area has been previously disturbed by a wildfire and the re-growth consists of sagebrush, various bunch grasses, and various reeds. None of the re-growth is larger than approximately 18 inches tall. There are several small stands of juniper and several small stands of scrub oak survived the fire.

Cultural Context

The prehistory of the Wasatch Front Valleys area of the Basin and Range region of the Eastern Great Basin can be broken down into a series of developmental stages based on changing technologies, economics, and social systems. Table 1 provides an overview of these phases. For more information refer to general syntheses of the regional prehistory (Jennings 1978; Madsen 1982; Geib 1996; Aikens & Madsen 1986; Madsen 1979; Simms 1986). For more information on the history of the area refer to historic syntheses of the area (Holzapfel 1999 and Wilson 1999).



Legend

	Project Area
	DNR
	Private
	SITLA
	UDOT

Figure 1. Sunroc Santaquin Pit Project

 BIGHORN ARCHAEOLOGICAL CONSULTANTS, LLC	0 1:24,000 1 mi
	0 1.5 km
USGS 7.5' Series Quad: Santaquin, UT	

Juab/Utah County
 T10S, R1E
 Sec 15

Table 1. Cultural Phases of the Eastern Great Basin

Cultural Phase	Sub-phase	Approximate Time Period
Paleoindian	N/A	20,000 – 6,500 BC
Archaic	Early Archaic	6,500 – 3,500 BC
	Middle Archaic	3,500 – 1,500 BC
	Late Archaic	1,500 BC – AD 400
Formative (Fremont)	N/A	AD 400 - 1350
Late Prehistoric (Southern Paiute / Ute)	Late Prehistoric	AD 1350 – 1700
	Protohistoric	AD 1700 – 1850
	Historic	Post AD 1850
Historic (Euro-American)	Early Exploration	AD 1776-1858
	Mormon Settlement,	AD 1858-1870
	Farming, Ranching &	AD 1870-1950s
	Mining	



Figure 2. General project overview of proposed new pit facing south.



Figure 3. General project overview of proposed new pit and existing pit facing east.

Previous Research

Prior to initiating fieldwork, Bighorn conducted a record search for reported projects and previously recorded cultural sites at the Utah State Historic Preservation Office on 4 March 2014. Nine previous cultural resource inventories and 11 previously recorded sites were observed within one mile of the proposed project area (Table 2 and Table 3).

General Land Office (GLO) maps, aerial photographs, Master Title Plats, and the Historic Index of the area were also reviewed for historic features, such as roads, trails, mining claims, or land patents. Three GLOs (1856, 1878, and 1893) were located for the project area. One road or trail was identified on the 1856 map. This road or trail appears to be located in the same location as the modern day US-92. This road and associated corridor is located between the two project areas. The aerial imagery of the project area does not show any other features the 1856 road or trail could be representing (Appendix A).

Table 2. Previous Cultural Resource Inventories within One Mile of the Proposed Project

Project Name	Project Number	Company
An Archaeological Survey of Two Proposed Borrow Pits Along I-15, Juab and Utah Counties, Utah	U84-BC-0283p	BYU-Office of Public Archaeology
A Cultural Resource Inventory of the Proposed Nephi City Gas Pipeline in Utah and Juab Counties, Utah	U91-NP-0066s	Nielson Consulting Group
A Cultural Resource Inventory of the Proposed Shirl Ekins State Land Acquisition in Juab and Utah Counties, Utah	U93-NP-0557s	Nielson Consulting Group
Class I and Class III Investigations for the Proposed Questar Main Line 104 Pipeline Project	U99-ST-0355b,f,p,s	SWCA
A Transect Across the Great Basin: Reno, Nevada to Spanish Fork, Utah A Class III Cultural Resources Inventory	U00-SY-0537b,p,s	Summit Envirosolutions, Inc.
A Cultural and Paelontological Resource Inventory along Highway 91, Mona, Juab County, Utah	U03-BS-0512s	Baseline Data, Inc.
A Class III Cultural Resources Inventory of Questar's Jurisdictional Tap Line 113 Pipeline Project, Juab and Utah Counties, Utah	U03-ST-0923b,p,s	SWCA
PacifiCorp Santaquin-Nebo #2 46kV Transmission Line Class III Cultural Resource Inventory of Existing ROW, Juab and Utah Counties, Utah	U07-KS-1279s	ARCADIS
An Archaeological Inventory of Portions of the Existing Rocky Mountain Power Company Hale-Nebo 138kV, Santaquin-Nebo #1 46kV, and Santaquin-Eureka 44kV Power Lines in Utah and Juab Counties, Utah	U09-BC-0283s	BYU-Office of Public Archaeology

Table 3. Previously Recorded Cultural Sites within One Mile of the Proposed Project

Site Number	Site Type	Cultural Affiliation	Eligibility
42JB1041 (1329)/ 42UT1029	Historic Utah Southern Railroad/ Union Pacific Railroad	1871-Present	Eligible (SHPO Concurred)
42JB1339/ 42UT1406	Historic Artifact Scatter	1920-1925	Not Eligible
42JB1657	Historic Structure	1950-1970	Eligible
42UT916	Historic Artifact Scatter	1900-1940	Not Eligible
42UT917	Multi-component: Prehistoric Lithic Scatter/ Historic Artifact Scatter	Unknown Aboriginal/ 1900-1940	Not Eligible

Site Number	Site Type	Cultural Affiliation	Eligibility
42UT918	Prehistoric Lithic Scatter	Unknown Aboriginal	Not Eligible
42UT919	Prehistoric Lithic Scatter	Unknown Aboriginal	Not Eligible
42UT920	Prehistoric Lithic Scatter	Unknown Aboriginal	Eligible (SHPO Concurred)
42UT921	Prehistoric Lithic Scatter	Unknown Aboriginal	Not Eligible
42UT922	Prehistoric Lithic Scatter	Unknown Aboriginal	Not Eligible
42UT1029 (1191)/ 42JB1041	Historic Union Pacific Railroad	1871-Present	Eligible (SHPO Concurred)

None of the 11 previously recorded sites are located within the current project area. The historic Utah Southern Railroad/Union Pacific Railroad (42JB1041/UT1029) is located between the proposed Santaquin Pit and the existing pit just east of the project area. Due to the lack of sites nearest the project area in the SHPO database and the disturbance caused by wildfires in the project area, cultural sites were not anticipated.

Inventory Methods

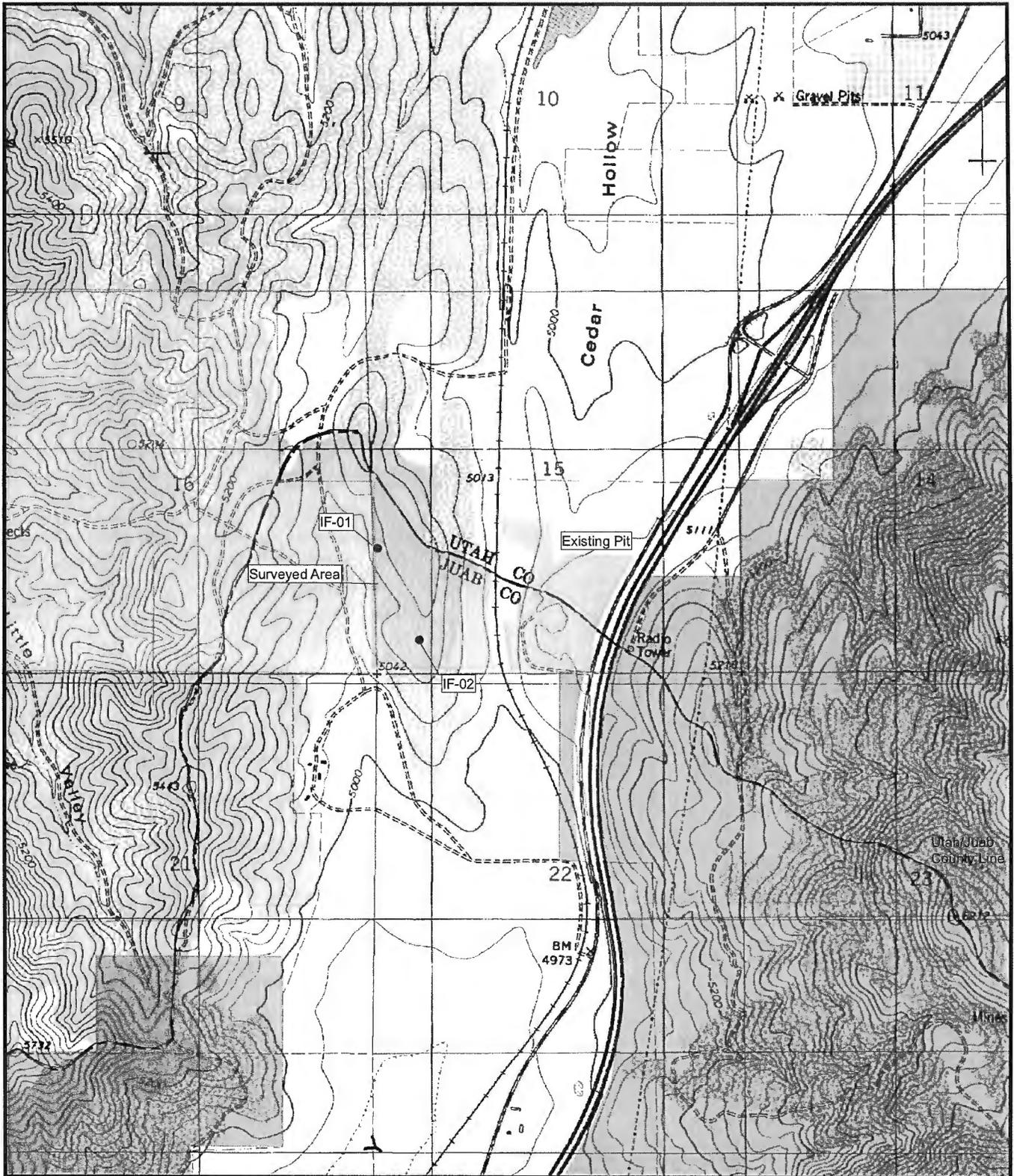
The cultural resource inventory for the proposed Santaquin Pit south of Santaquin, Juab County, Utah involved a pedestrian survey to identify cultural resources within the proposed APE. The area inventoried consisted of approximately 73.8 acres. This area was inventoried by walking multiple 15 m (50 ft) wide pedestrian transects to provide intensive coverage.

Cultural resource encountered during the inventory were recorded as sites or isolates, as defined in the National Register Bulletin No. 16A as the "location of a significant event, a prehistoric occupation or activity, or a building or structure, whether standing, ruined, or vanished, where the location itself possesses historic, cultural, or archaeological value regardless of any existing structure." To clarify, historic, prehistoric, or archaeological features or any archaeological or historic anomaly that contains, at a minimum, greater than ten artifacts in a 10-meter diameter area, multiple features, a single feature for which sufficient information is available to raise the possibility that it may be significant, or a combination of a feature and artifacts were considered a site. All other cultural materials that do not meet the above criteria were considered isolated artifacts, or single artifacts or features of which little is known and possessing no possibility for significance to be determined.

Each site and/or isolated find is recorded using data obtained from a Trimble GeoXT global positioning system (GPS) and based on NAD 83. All GPS data will be submitted to the appropriate agency to incorporate into their databases. All previously and newly recorded sites were evaluated against the criteria set forth by the NRHP.

Inventory Results

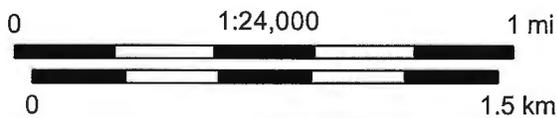
Examination of the proposed project area resulted in no new cultural sites, furthermore, no features on the GLO map, including roads, were found in the project area. However, two isolated finds were identified during the inventory (Table 4; Appendix B).



Legend

- Isolated Find
- Project Area
- DNR
- Private
- SITLA
- UDOT

Figure 4. Sunroc Santaquin Pit and Isolated Find Locations



USGS 7.5' Series Quad: Santaquin, UT

Juab/Utah County
 T10S, R1E
 Sec 15



Table 4. Isolated Finds

Isolated Find	Description
IF-01	Two sanitary cans with crimped seams and bi-metal tops
IF-02	Rock cairn and associated 2-inch lath

Summary and Recommendations

At the request of Sunroc Corporation, Bighorn has completed a cultural resource inventory for the proposed Santaquin Pit south of Santaquin, Juab County, Utah. The project area is located on 73.8 acres of land (840 by 1,353 meters) on land approximately 2.4 miles southwest of Santaquin, Utah on privately held lands. Examination of the project area resulted in the discovery of a no new cultural sites or isolated finds. Furthermore, no previously recorded sites were present within the survey area. Bighorn Archaeological Consultants, LLC, recommends a determination of **No Historic Properties Affected** for this project.

References Cited

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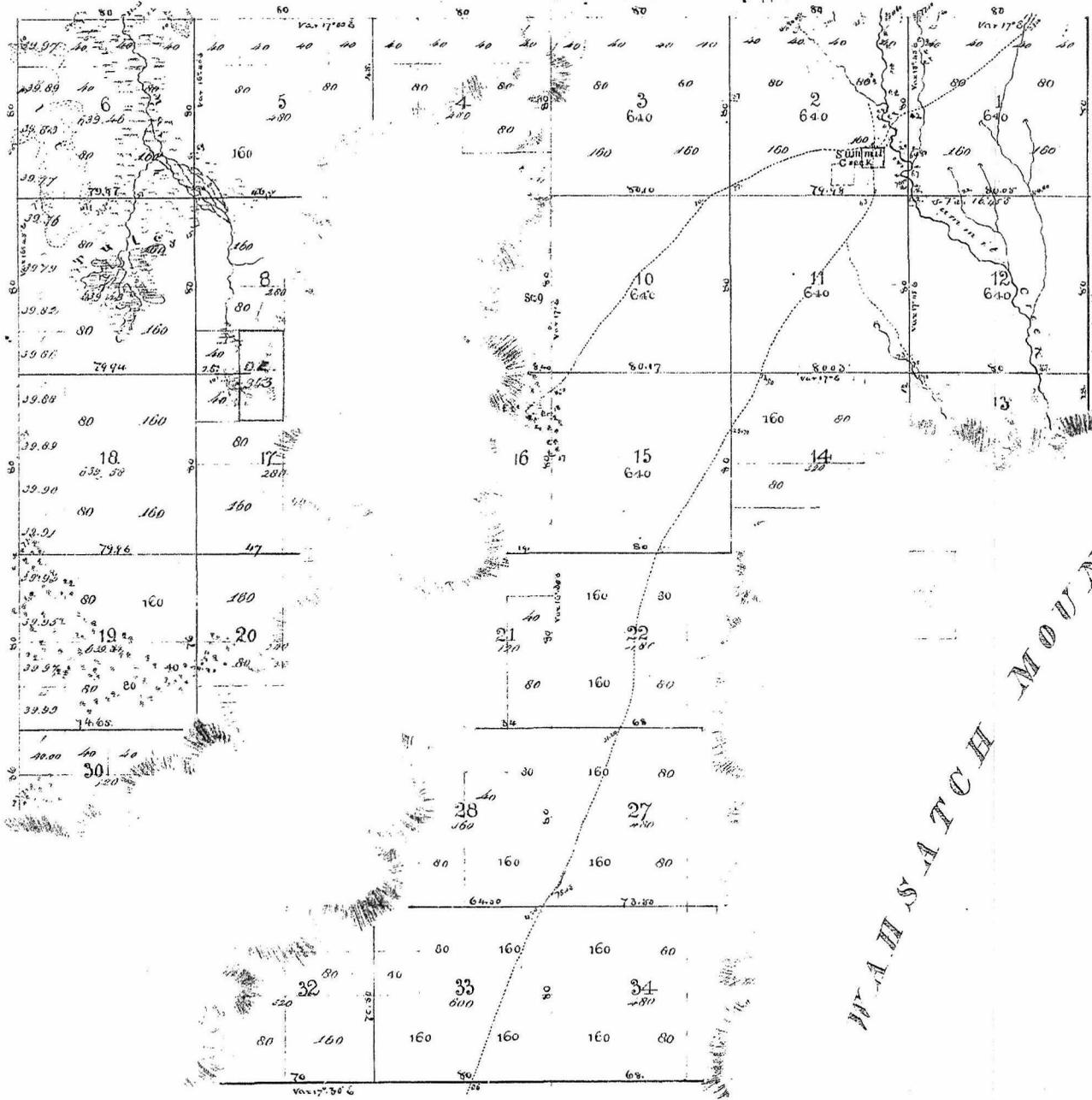
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Appendix A
Aerial and GLO Maps

I O S — R I E. Salt Lake Meridian.



N.E. 1/4 Sec. 11, T. 17 N., R. 10 E.
 S.E. 1/4 Sec. 11, T. 17 N., R. 10 E.

Notes
 N. Bdy. 14
 S. " 57.143
 E. " 256.228
 W. " 114.228-257
 Sub. 12-50-228
 Plat. Book
 Exc.
 Sub. (2-21) (20-6) (24-74)

Scale 40 Chains to an Inch.

Total number of Acres 11997.31

Surveys designated	By whom surveyed	Date of Contract	Amount of Survey	When surveyed
South Boundary	C. S. Gray	June 5 th 1856	2. 58. 00	Sept 1856
Section Lines	do	do	26. 23. 65	do

Surveyor General's Office
 Great Salt Lake City Nov 20 1856.
 The above map of Township 10 South of Range 1 East of the
 10th Meridian is strictly conformable to the field notes of
 the survey thereof on file in this office which have been examined
 and approved

Wm. H. Hunt
 Surveyor of Utah.

Appendix B
Isolated Finds

Isolate # 01

Class Type

Description

UTM Zon Easting Northing Photo

Township N/S Range E/W Section

Map Reference Quad Series Quad Date

Notes

Isolate # 02

Class Type

Description

UTM Zon Easting Northing Photo

Township N/S Range E/W Section

Map Reference Quad Series Quad Date

Notes



Santaquin Pit Project: IF-01, cans. Photo 4.



Santaquin Pit Project. IF-02, rock cairn and lath. Photo 8.

State Project No. U14-HO-0119p

Report Title: A Cultural Resource Inventory for the Sunroc Santaquin Pit Project south of Santaquin, Juab County, Utah

State Project No.: U14-HO-0119p **Organization Project No.:** Bighorn Archaeological Consultants, LLC

Report Date: March 2014 **County(ies):** Juab County

Report Author(s): Syanna T. Madsen

Principal Investigator: Jon Baxter **Field Supervisor(s):** Jon Baxter

Records search date(s): 3/4/2014 **Preservation Pro Used?** Yes No

Acres Surveyed: Intensive (<=15 m intervals): 73.8 **Recon/Intuitive (>15 m intervals):** _____

USGS 7.5' Series Santaquin, Utah
Map Reference(s):

SITES REPORTED	COUNT	SMITHSONIAN SITE NUMBERS
Revisits (no site form updates)	0	
Updates (updated site forms attached)	0	
Photographic recordings (site forms attached)	0	
Total Count of Archaeological Sites in APE	0	
Historic Structures (structure forms attached)	0	
Total National Register Eligible Sites	0	

CHECKLIST OF REQUIRED ITEMS FOR SUBMITTAL TO SHPO

1. Copy of the final report
2. Copy of USGS 7.5' Series basemap with Investigated area clearly identified
3. Completed site forms
 - IMACS Encoding Form
 - Site Sketch Map
 - Photographs adhering to UDSH standards
 - Copy of USGS 7.5' Series basemap with site location and Smithsonian site number clearly labeled
- CD of digital report and site documents, including shapefiles (optional)
5. Completed "Cover Page" accompanying final report and form

For UDSH office use only

Appendix C
Wet Lands

— —

— —

— —

— —

— —

APPENDIX C



Intermountain Ecosystems
270 East 1230 North
Springville, Utah 84663

Mr. Brent Sumsion, Project Manager
Sunroc
730 N 1500 West
Orem, UT. 84057

RE: Sunroc Pit, Santaquin, Utah T&E and Clean Water Act Compliance.

Dear Brent:

On March 20 2014, I inventoried the proposed Santaquin Pit, south of city of Santaquin in Utah County. Sunroc wants to excavate the pit for gravel. Waters of the United States (WOUS) including wetlands are protected by section 404 of the Clean Water Act.

The wetland inventory searched the above property and did not observe any WOUS/wetlands in the project area. There were also no other listed T&E plant or animal species found in the project area.

I therefore conclude a "No Effect" determination for this project. If you have any questions concerning this inventory, please feel free to call 801-489-4590

Sincerely:

Ronald J. Kass, Ph.D.
Biologist



APPENDIX D

UTAH COUNTY BOARD OF ADJUSTMENT

51 S. University, #117
Provo, Utah 84601
(801) 851-8352
(801) 851-8359 (fax)

NOTICE TO PROPERTY OWNERS

October 22, 2013

APPEAL #1530

As an adjoining property owner, you may be interested to know that the Utah County Board of Adjustment will consider the request of **Sunroc Corporation**, who is requesting approval of a conditional use for a sanitary landfill in the Mining and Grazing (M&G-1) Zone located at approximately 15800 S. Frontage Road (I-15), Section 15, T10S R1E, in the Santaquin area of Utah County.

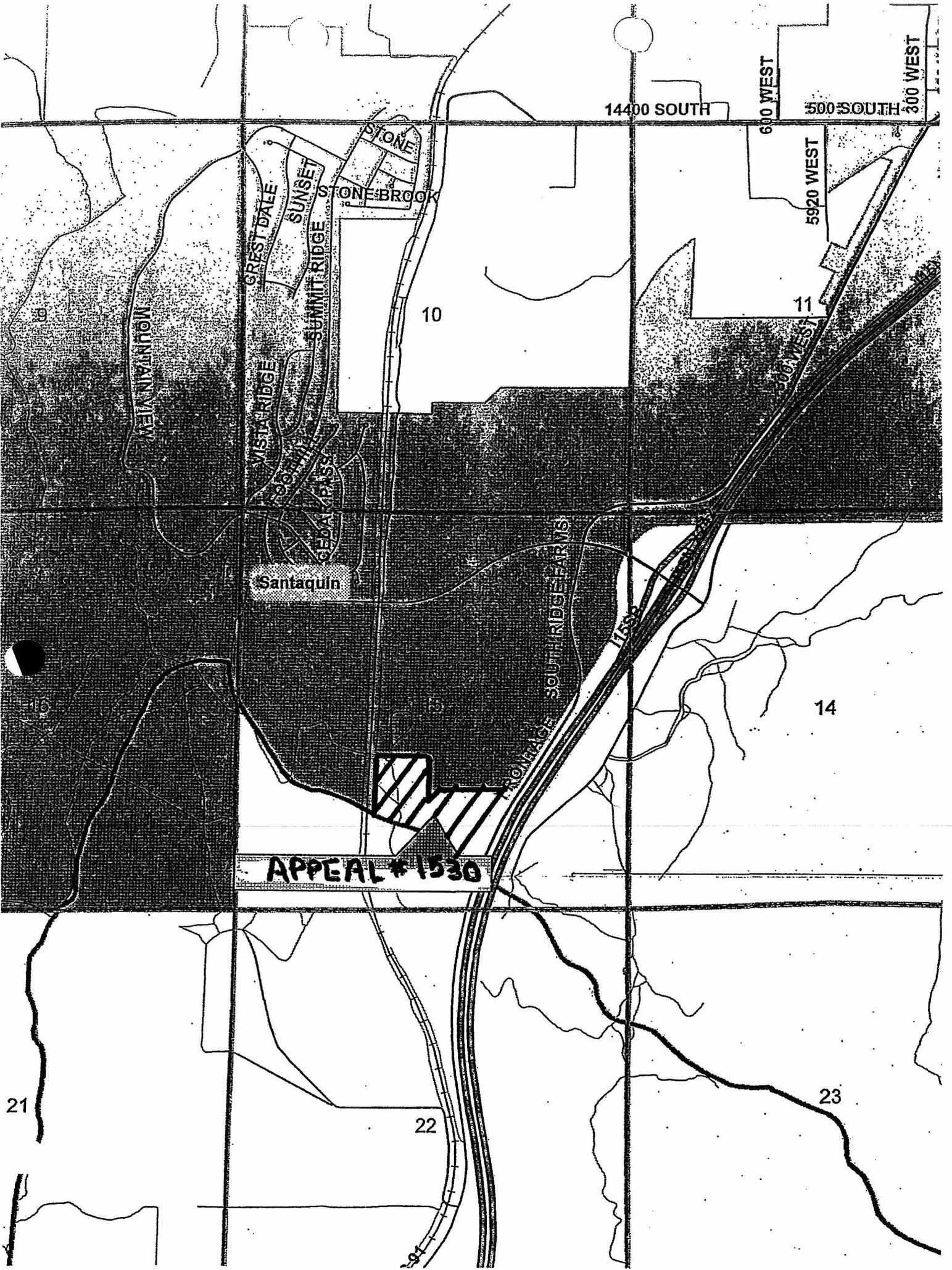
They will hear this matter at their regularly scheduled meeting on **Thursday, November 7, 2013, at 5:15 p.m.** in Room 1400 of the Utah County Administration Building located at 100 East Center Street, Provo, Utah. You, or a representative, may express your views on this matter at that time, or you may submit your views in writing by letter or fax up until 3:00 p.m. that day. Any response will become part of the public comment portion of the meeting.

If you know of any interested property owner who for any reason has not received a copy of this notice, please advise him/her of the time and place of the hearing. If you have questions, you may contact the Community Development office at (801) 851-8343.

Sincerely,

Christina Sutton, Secretary
Utah County Board of Adjustment

Map on reverse



14400 SOUTH

600 WEST

500 SOUTH

300 WEST

5920 WEST

11

10

Santaquin

14

15

APPEAL # 1530

23

22

21



Utah County Online

The Official Web Site of
Utah County Government

PROPERTY INFORMATION

Serial Number: 32:021:0007 Serial Life: 1971...

Property Address:

Mailing Address: %DIVISION OF FISH AND GAME 1596 W NORTH TEMPLE SALT LAKE CITY, UT 84116

Acreage: 44.56

Last Document: 12694-1970

Legal Description: COM SE COR SE 1/4 SEC 15, T10S, R1E, SLM; S 89 DEG 31'57"W 1296.4 FT; N 1 DEG 18'33"W 1104.32 FT; N 28 DEG 58'27"E 265.68 FT; N 89 DEG 55'01"E 1174.64 FT; S 52'26"E 1327.83 FT TO BEG. ALSO: COM SE COR SW 1/4 OF SE 1/4 SEC 15, T10S, R1E, SLM; W 403.89 FT; N 14 DEG 44'47"E 207 FT; N 5 DEG 40'33"E 90.40 FT; N 17 DEG 54'14"E 373.28 FT; N 38 DEG 46'58"E 143.01 FT; S 926.8 FT TO BEG. AREA 44.56 ACRES

Owner Names	Value History	Tax History	Location	Photos	Documents	Exp Legal
1992...	<u>UTAH STATE DEPT OF NATURAL RESOURCES</u>					
1992NV	<u>UTAH STATE DEPT OF NATURAL RESOURCES</u>					
1989-1991	<u>UTAH STATE DEPT OF NATURAL RESOURCES</u>					
1988	<u>UTAH STATE DIV OF FISH AND GAME</u>					
1971-1987	<u>UTAH STATE DIVISION OF FISH AND GAME</u>					
Additional Information <input type="checkbox"/>						

Main Menu

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PROPERTY INFORMATION

Serial Number: 32:021:0008 Serial Life: 1978...

Property Address: SANTAQUIN DIST
 Mailing Address: 947 E 80 N OREM, UT 84097-4978
 Acreage: 21.93
 Last Document: 31726-2000

Legal Description: COM AT E 1/4 COR SEC 15, T10S, R1E, SLM; (BASED ON UT ST COORDINATE SYSTEM, CENT ZONE) S 58'16"E 1318.88 FT; S 89 14'12"W 1151.09 FT TO SE-LY R/W IN HWY I-15; N 28 11'16"E 119.01 FT; N 32 40'39"E 1460.26 FT; E 284.01 FT TO BEG. AREA.21.93 ACRES.

Owner Names	Value History	Tax History	Location	Photos	Documents	Exp Legal
2001...	MCKELL, JANET W					
2001...	MCKELL, RICK A					
1999-2000	GARNER PROPERTIES LC					
1999-2000	MCKELL, JANET W					
1999-2000	MCKELL, RICK A					
1984-1998	ELLSWORTH, ELMAN K JT					
1984-1998	ELLSWORTH, RICHARD G					
1978-1983	ELLSWORTH, ELMAN K JT					
1978-1983	ELLSWORTH, RICHARD G					

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Main Menu

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- [Address Change for Tax Notice](#)

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PROPERTY INFORMATION

Serial Number: 32:021:0014 Serial Life: 1991...

Property Address:

Mailing Address: 310 W 700 S PAYSON, UT 84651-2833

Acreage: 6.381134

Last Document: 29308-2000

Legal Description: COM N 944.22 FT & W 795.1 FT FR S 1/4 SEC. 15, T10S, R1E, SLB&M.; N 1 DEG 25' 24" E 859.41 FT; S 63 DEG 27' 55" E 548.8 FT; S 26 DEG 32' 5" W 700 FT; N 86 DEG 28' 31" W 200 FT TO BEG. AREA 6.381 AC.

Owner Names	Value History	Tax History	Location	Photos	Documents	Exp Legal
2001... SANTAQUIN GUN CLUB INC THE						
1997-2000 SANTAQUIN CITY CORP						
1991-1996 SANTAQUIN CITY CORP						
Additional Information ▾						

Main Menu

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Utah County Online

The Official Web Site of Utah County Government

PROPERTY INFORMATION

Serial Number: 32:021:0018 Serial Life: 1997...

Property Address:

Mailing Address: 638 SCENIC DR SPANISH FORK, UT 84680-2811

Acreage: 5.499967

Last Document: 36364-1996

Legal Description: COM N 89 DEG 31' 57" E 524.88 FT & N 1644.62 FT FR S 1/4 COR. SEC. 15, T10S, R1E, SLB&M.; N 0 DEG 6' 20" W 363.04 FT; S 89 DEG 56' 17" E 760.09 FT; S 31 DEG 22' 44" W 25.28 FT; S 28 DEG 28' 47" W 388.22 FT; N 89 DEG 56' 17" W 561.13 FT TO BEG. AREA 5.500 AC.

Owner Names	Value History	Tax History	Location	Photos	Documents	Exp Legal
2009...	LARSEN, DON B					
2008	LARSEN, DON B					
1998-2007	LARSEN, DON B					
1997	LARSEN, DON B					

Additional Information

Main Menu

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 Utah County Government

PROPERTY INFORMATION

Serial Number: 32:021:0020 Serial Life: 1997...

Property Address:

Mailing Address: 14708 DRAPER VIEW CV DRAPER, UT 84020-7628

Acreage: 26.405993

Last Document: 89976-2001

Legal Description: COM S 2711.86 FT & W 868.97 FT FR NE 1/4 SEC. 15, T10S, R1E, SLB&M.; S 31 DEG 22' 40" W 689.45 FT; N 89 DEG 56' 17" W 755.1 FT; S 0 DEG 6' 20" E 363.08 FT; N 89 DEG 56' 17" W 367.94 FT; S 48 DEG 27' 55" W 316.34 FT; N 0 DEG 6' 19" W 1160.25 FT; E 1720.3 FT TO BEG. AREA 26.406 AC.

Owner Names	Value History	Tax History	Location	Photos	Documents	Exp Legal
2009...	<u>GREEK STREAK FOUNDATION</u>					
2009...	<u>UTAH SHOP LLC</u>					
2008	<u>GREEK STREAK FOUNDATION</u>					
2008	<u>UTAH SHOP LLC</u>					
.2002-2007	<u>GREEK STREAK FOUNDATION</u>					
.2002-2007	<u>UTAH SHOP LLC</u>					
1998-2001	<u>UTAH SHOP LLC</u>					
1997	<u>UTAH SHOP LLC</u>					

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Main Menu

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Documents/Owner/Parcel Information - Recorder's Office

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PROPERTY INFORMATION

Serial Number: 32:021:0035 Serial Life: 2004...

Property Address:

Mailing Address: 5040 W POST RD LAS VEGAS, NV 89118-4371

Acreage: 6.278162

Last Document: [55254-2004](#)

Legal Description: COM N 2693.79 FT & W 751.63 FT FR S 1/4 COR. SEC. 15, T10S, R1E, SLB&M.; S 1 DEG 25' 24" W 1414.88 FT; N 64 DEG 7' 19" W 67.95 FT; N 61 DEG 8' 0" W 47.1 FT; N 60 DEG 48' 41" W 83.05 FT; N 62 DEG 24' 35" W 26.13 FT; N 1 DEG 26' 0" E 1310.9 FT; S 89 DEG 42' 3" E 200.4 FT TO BEG. AREA 6.278 AC.

Owner Names	Value History	Tax History	Location	Photos	Documents	Exp Legal
2005...	KBS FARM HOLDINGS LLC					
2004	KBS HOLDINGS LLC					
2004NV	BG SOUTH LLC					

Additional Information

Main Menu

Comments or Concerns on Value/Appraisal - [Assessor's Office](#)

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Also:

- Santagin City 
275 W. Main St.
Santagin, Ut 84655

- Juas County 
160 N. Main
Nephi, Ut 84648

SUNROC SANTAQUIN LANDFILL LOAD TICKET

Date _____ Waste Type _____

Origination _____

Gross Weight _____

Tare Weight _____

Net Weight _____ OR Volume _____

Inspected ? Y N

Results of Inspection _____

Operator Signature _____

SUNROC SANTAQUIN LANDFILL LOAD TICKET

Date _____ Waste Type _____

Origination _____

Gross Weight _____

Tare Weight _____

Net Weight _____ OR Volume _____

Inspected ? Y N

Results of Inspection _____

Operator Signature _____

SUNROC SANTAQUIN LANDFILL LOAD TICKET

Date _____ Waste Type _____

Origination _____

Gross Weight _____

Tare Weight _____

Net Weight _____ OR Volume _____

Inspected ? Y N

Results of Inspection _____

Operator Signature _____

SUNROC SANTAQUIN LANDFILL
DAILY OPERATING RECORD

Date _____ Operator _____

		Total Weight	OR	Total Volume
No. Semi Trucks				
No. Large Trucks				
No. Pickups				

Date _____ Operator _____

		Total Weight	OR	Total Volume
No. Semi Trucks				
No. Large Trucks				
No. Pickups				

Date _____ Operator _____

		Total Weight	OR	Total Volume
No. Semi Trucks				
No. Large Trucks				
No. Pickups				

Date _____ Operator _____

		Total Weight	OR	Total Volume
No. Semi Trucks				
No. Large Trucks				
No. Pickups				

Date _____ Operator _____

		Total Weight	OR	Total Volume
No. Semi Trucks				
No. Large Trucks				
No. Pickups				

Sunroc Monthly Landfill Inspection Check List

A check in the shaded boxes indicate abnormal condition

Date of Inspection	Inspection Item	Yes	No	How was the problem been corrected. Date Completed.
	Are access roads to the Sanitary landfill adequately treated to control fugitive dust from vehicles?			
	Have noxious weed been treated being controlled with herbicide?			
	Does the material in the landfill cell present a blowing trash problem.			
	Does the surrounding area of the landfill have excessive blowing trash?			
	Is the boundary fence in good condition?			
	Is there an insect/rodent problem?			
	Site drainage ditches are clear of debris?			
	Any condition that would lead to the release of wastes into the environment or threat human health? Enter notes below.			
	Any sign of prohibited wastes in landfill?			

Inspector's Name and Signature _____

Additional Notes:

APPENDIX E



ENT 112439:2013 PG 1 of 3
JEFFERY SMITH
UTAH COUNTY RECORDER
2013 Dec 10 11:12 am FEE 0.00 BY SS
RECORDED FOR UTAH COUNTY COMMUNITY DEVEL

Pursuant to Utah County Ordinance No. 2000-08,
the following decision of the Utah County Board of
Adjustment is recorded relative to the subject property.

ACTION BY BOARD OF ADJUSTMENT

Appeal No. 1530

Applicant: SUNROC CORPORATION

CONDITIONAL USE

When the Board of Adjustment acts under its power to hear and decide requests for conditional use, the Board shall comply with all the rules and standards of the Utah County Land Use Ordinance as found in Section 7-20.

The request of Sunroc Corporation for a sanitary landfill in the Mining and Grazing (M&G-1) Zone, located at approximately 15800 South Frontage Road, Section 15, T10S, R1E in the Santaquin area of Utah County is **granted** based on the following motion:

That the Utah County Board of Adjustment approve the request for a conditional use for a sanitary landfill in the M&G-1 Zone based on staff findings and subject to the following conditions:

1. That the Board finds the conditional use meets the standards found in Section 7-20-C(1) through (7) of the Utah County Land Use Ordinance;
2. That use of the property for a sanitary landfill not commence until approval by the Utah State Department of Environmental Quality is obtained;
3. That use of the property for a sanitary landfill not commence until a Utah County Zoning Compliance Permit is obtained, which shall include all proposed uses and facilities within the sanitary landfill;
4. That the operator of the sanitary landfill obtain and maintain a Utah County business license prior to operation of the landfill;
5. That only construction and demolition waste be deposited in the sanitary landfill in accordance with all applicable State requirements. Construction and demolition waste shall only include the following:
 - Concrete, bricks, and other masonry materials
 - Soil and rock
 - Waste asphalt
 - Rebar contained in concrete
 - Untreated wood and tree stumps;

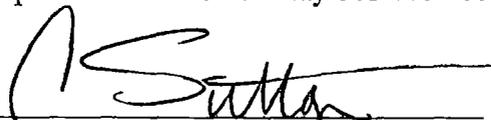
- 6. That use of the property as a sanitary landfill be compatible with an updated reclamation plan for the existing gravel extraction operation on the property, as verified by the Utah County Engineer;
- 7. That only licensed building contractors be allowed to deposit construction and demolition waste in the sanitary landfill. The sanitary landfill may not be made available for use by the general public.
- 8. That an annual engineering report be submitted to Utah County that verifies soil compaction and soil testing are consistent with the letter submitted by Sunroc dated Oct. 2, 2013. The report shall be prepared by a licensed geo-technical engineer and shall be submitted to Utah County by June 30th each year.
- 9. That any use of the sanitary landfill requiring expansion of the existing permitted gravel extraction operation comply with all applicable requirements of Sec. 3-24 of the Utah County Land Use Ordinance.

IF PERMIT NOT OBTAINED WITHIN ONE (1) YEAR, THIS APPROVAL IS VOID

The decision of the Utah County Board of Adjustment may be appealed to the Fourth District Court within 30 days from the date this Action Report is filed with the Utah County Recorder.

Vote Record:	AYE	NAY	ABSTAINED
Rose Blakelock	X		
Greg Graves	X		
Kelly Ercanbrack	X		
Jim Dain	X		

I, Christina Sutton, certify the voting record shown above to be true and correct, and a copy of this Action Report was recorded and filed in the Utah County Community Development Department on the 10th day of December, 2013.



Christina Sutton, Secretary
UTAH COUNTY BOARD OF ADJUSTMENT

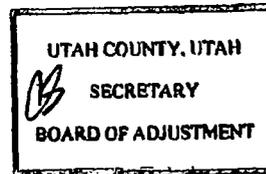


EXHIBIT A

32:021:0010 and 32:021:0016

COM N 1648.30 FT & E 1087.31 FT FR S1/4 COR SEC 15, T10S, R1E, SLM; S 28 DEG 24'16"W 42.46 FT; SWLY 715.47 FT ALONG ARC OF 5802.65 FT RAD CUR L (CHD S 27 DEG 21'15"W 715.02 FT); N 66 DEG 10'42"W 33 FT; SWLY 654.17 FT ALONG ARC OF 5836.65 FT RAD CUR L (CHD S 20 DEG 36'37"W 653.82 FT); N 80 DEG W 288.46 FT; N 01 DEG 32'W 1221.53 FT; S 89 DEG 56'17"E 925.37 FT TO BEG. AREA 16.82 ACRES.

COM AT S 1/4 COR. SEC. 15, T10S, R1E, SLB&M.; S 89 DEG 31' 57" W 668.12 FT; ALONG A CURVE TO R (CHORD BEARS: N 9 DEG 43' 53" W 735.33 FT, RADIUS = 3048.79 FT) ARC LENGTH = 737.12 FEET; N 89 DEG 38' 37" E 196.92 FT; N 211.41 FT; N 26 DEG 32' 5" E 699.99 FT; N 63 DEG 27' 55" W 548.8 FT; N 1 DEG 25' 24" E 280.85 FT; S 89 DEG 6' 0" E 685.77 FT; S 0 DEG 6' 19" E 638.39 FT; N 48 DEG 27' 55" E 323.1 FT; S 1 DEG 32' 0" E 1221.53 FT; S 80 DEG 0' 0" E 321.74 FT; ALONG A CURVE TO L (CHORD BEARS: S 17 DEG 16' 37" W 33.28 FT, RADIUS = 5802.65 FT) ARC LENGTH = 33.28 FEET; N 80 DEG 0' 0" W 509.34 FT; S 429 FT TO BEG. AREA 33.344 AC.



State of Utah

JON M. HUNTSMAN, JR.
Governor

GARY HERBERT
Lieutenant Governor

Department of
Environmental Quality

Amanda Smith
Acting Executive Director

DIVISION OF AIR QUALITY
Cheryl Heying
Director

DAQE-AN0108140006-09

August 6, 2009

Earl Davis
Sunroc Corporation
525 West Arrowhead Trail
Spanish Fork, UT 84660

Dear Mr. Davis:

Re: Approval Order: Modifications to AO (DAQE-739-00) to Change Equipment and Increase Production; Utah County; CDS B; NSPS (Part 60), Nonattainment or Maintenance Area, Title V (Part 70)
Project Number: N010814-0006

The attached document is the Approval Order for the above-referenced project. Future correspondence on this Approval Order should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. The project engineer for this action is Enqiang He, who may be reached at (801) 536-4010.

Sincerely,


M. Cheryl Heying, Executive Secretary
Utah Air Quality Board

MCH:EH:dn

cc: Utah County Health Department

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

**APPROVAL ORDER: Modifications to AO (DAQE-739-00) to
Change Equipment and Increase Production**

**Prepared By: Enqiang He, Engineer
Phone: (801) 536-4010
Email: ehe@utah.gov**

APPROVAL ORDER NUMBER

DAQE-AN0108140006-09

Date: August 6, 2009

Santaquin Aggregate Facility

Source Contact:

Mr. Brian Harris, Environmental Specialist

Phone: (801) 802-6954



**M. Cheryl Heying
Executive Secretary
Utah Air Quality Board**

Abstract

Sunroc Corporation (Sunroc) operates an aggregate production plant near the City of Santaquin in Utah and Juab Counties. The operations are primarily located at Utah County. Utah County is a Non-attainment area of the NAAQS for PM₁₀. The source will operate a main crushing plant, a secondary plant, and a trackscreen plant. Generators will supply power to the plants. The source will produce up to 1,250,000 tons of aggregate materials, where no more than 1,150,000 tons are processed per rolling 12-month period. NSPS applies to this source. NESHAP and MACT regulations do not apply to this source. Title V of the 1990 Clean Air Act applies to this source. The emissions, in tons per year, will change as follows: PM₁₀ (+) 12.90, NO_x (+) 8.75, SO₂ (+) 0.52, CO (+) 1.89, VOC (+) 0.65. The changes in emissions will result in the following, in tons per year, potential to emit totals: PM₁₀ = 26.72, NO_x = 36.75, SO₂ = 0.99, CO = 8.31, VOC = 1.40 and HAPs = 0.01.

This air quality AO authorizes the project with the following conditions and failure to comply with any of the conditions may constitute a violation of this order. This AO is issued to, and applies to the following:

Name of Permittee:

Sunroc Corporation
525 West Arrowhead Trail
Spanish Fork, UT 84660

Permitted Location:

Sunroc Corporation: Santaquin Aggregate
Facility
0.5 Miles West of Highway 91
(2.5 Miles South of Santaquin, UT)
Santaquin, UT 84655

UTM coordinates:430,621 m Easting, 4,421,647 m Northing
SIC code:1442 (Construction Sand & Gravel)

Section I: GENERAL PROVISIONS

- I.1 All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]
- I.2 The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]
- I.3 Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]
- I.4 All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of two (2) years. [R307-401]
- I.5 At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity

observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded.
[R307-401-4]

- I.6 The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring.
[R307-150]
- I.7 The owner/operator shall comply with UAC R307-107. General Requirements: Unavoidable Breakdowns. [R307-107]

Section II: SPECIAL PROVISIONS

II.A The approved installations shall consist of the following equipment:

- II.A.1 Aggregate Processing Plants and Trackscreen Plant**
- II.A.2 Crushers**
Six (6) Crushers each rated at 550 tons per hour
- II.A.3 Screens**
Five (5) screens each rated at 1,000 tons per hour
- II.A.4 Grizzly Feeder/Screen**
One (1) grizzly feeder rated at 550 tons per hour
- II.A.5 Trackscreen**
One (1) trackscreen rated at 350 tons per hour powered by a diesel engine rated less than 600 Hp
- II.A.6 Powergrid**
One (1) power grid rated at 275 tons per hour powered by a diesel engine rated less than 600 Hp
- II.A.7 Generators**
One (1) diesel fired engine generator (or self-powered equipment) rated greater than 600 Hp
Two (2) diesel fired engine generators (or self-powered equipment) rated less than 600 Hp
- II.A.8 Diesel Fuel Storage Tanks**
Four (4) diesel storage tanks, two rated at 500 gallons each and two rated at 12,000 gallons each
- II.A.9 Various Conveyors and Feeders**
- II.A.10 Miscellaneous Mobile Equipment**
Loaders, dozers, etc.

II.B Requirements and Limitations

II.B.1.a Sunroc shall notify the Executive Secretary in writing when the installation of the equipment listed in Condition II.A has been completed and is operational. To ensure proper credit when notifying the Executive Secretary, send your correspondence to the Executive Secretary, attn: Compliance Section.

If the construction and/or installation has not been completed within 18 months from the date of this AO, the Executive Secretary shall be notified in writing on the status of the construction and/or installation. At that time, the Executive Secretary shall require documentation of the continuous construction and/or installation of the operation and may revoke the AO. [R307-401-18]

II.B.1.b The owner/operator shall not produce more than 1,250,000 tons of aggregate materials including bankrun material per rolling 12-month period with no more than 1,150,000 tons processed per rolling 12-month period.

To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. All aggregate materials produced including bankrun material shall be weighed. Production shall be determined by the belt scale records on the initial feeder, the scale house records, or other methods approved by the Executive Secretary. The records of production shall be kept on a daily basis. [R307-401]

II.B.2 Conditions on Crushers, Screens, Conveyors and Stackers

II.B.2.a Water sprays or chemical dust suppression sprays shall be installed at the following points to control fugitive dust emissions:

- A. All crushers
- B. All screens
- C. All conveyor transfer points

The sprays shall operate to control fugitive emissions and ensure the opacity limits listed in this AO are not exceeded. The owner/operator may stop water application if the temperature is below freezing. [R307-401]

II.B.2.b In addition to the requirements of this AO, all applicable provisions of 40 CFR 60, NSPS Subpart A, 40 CFR 60.1 to 60.18 (General Provisions), Subpart OOO, 40 CFR 60.670 to 60.676 (Standards of Performance for Non-metallic Mineral Processing Plants) apply to this installation. [40 CFR 60 Subpart OOO]

II.B.2.c Visible emissions from the following emission points shall not exceed the following values:

- A. All crushers - 15% opacity

- B. All screens - 10% opacity
- C. All conveyor transfer points - 10% opacity
- D. All conveyor drop points - 20% opacity

Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9.

For sources that are subject to NSPS, opacity shall be determined by conducting observations in accordance with 40 CFR 60.11(b) and 40 CFR 60, Appendix A, Method 9.

All equipment above is subject to the initial visible emission observations. Initial visible emission observations shall consist of 30 observations of six minutes each in accordance with 40 CFR 60.11(b). Equipment subject to NSPS Subpart OOO shall comply with 40 CFR 60.675(c)(3) or 40 CFR 60.675(c)(4). All visible emission observations must be conducted in accordance with 40 CFR 60, Appendix A, Method 9. A certified observer must be used for these observations. Initial visible emission observations shall be completed within 180 days of start-up. [40 CFR 60 Subpart OOO]

II.B.3 Conditions on the Diesel Engine Generators

II.B.3.a The owner/operator shall use #2 fuel oil as a fuel in all diesel engine generators. [R307-401]

II.B.3.b The sulfur content of any fuel oil or diesel burned shall not exceed 0.50 percent by weight. The sulfur content shall be determined by ASTM Method D-4294-89 or approved equivalent. Certification of the fuel oil shall be either by Sunroc's own testing or test reports from the fuel marketer. The sulfur content certification or the test reports shall be available on-site for each load delivered. [R307-401]

II.B.3.c The following consumption limits shall not be exceeded:

- A. 488,855 Hp-hrs per rolling 12-month period for diesel engine generators with rated capacity less than 600 Hp.
- B. 2,430,563 Hp-hrs per rolling 12-month period for diesel engine generators with rated capacity greater than 600 Hp.

To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of consumption shall be kept for all periods when the plant is in operation. The records of consumption shall be kept on a daily basis. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log. [R307-401]

II.B.3.d Visible emissions from the diesel engine generators shall not exceed 20% opacity. Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9. [R307-401]

II.B.4 Conditions on Fugitive Dust Sources

II.B.4.a Visible fugitive dust emissions from haul-road traffic and mobile equipment in operational areas shall not exceed 20% opacity at any point. Visible emission determinations shall use procedures similar to Method 9. The normal requirement for observations to be made at 15-second intervals over a six-minute period, however, shall not apply. Visible emissions shall be measured at the densest point of the plume but at a point not less than 1/2 vehicle length behind the vehicle and not less than 1/2 the height of the vehicle. [R307-401]

II.B.4.b Sunroc shall abide by a fugitive dust control plan acceptable to the Executive Secretary for control of all dust sources associated with the operations of the pit. Sunroc shall submit a fugitive dust control plan to the Executive Secretary, attention: Compliance Section, for approval within 30 days of the date of this AO. The limitations and conditions in the fugitive dust control plan shall not be changed without prior approval in accordance with R307-401.

The haul road length, storage pile size, exposed area and conditions which were used to estimate the emissions shall be addressed in the fugitive dust control plan and will not change to increase emissions without prior approval in accordance with R307-401. The haul road speed shall be posted. [R307-309]

II.B.4.c The owner/operator shall vacuum sweep and flush with water all the paved haul roads on site to maintain opacity limits listed in this AO. If the temperature is below freezing, the owner/operator shall continue to vacuum sweep the road but may stop flushing the paved haul roads with water. If the haul roads are covered with snow or ice, the owner/operator may stop vacuum sweeping the paved haul roads and flushing the paved haul roads with water.

Records of vacuum sweeping and water application shall be kept for all periods when the plant is in operation. The records shall include the following items:

- A. Date and time treatments were made
- B. Number of treatments made and quantity of water applied
- C. Rainfall amount received, if any
- D. Records of temperature, if the temperature is below freezing
- E. Records shall note if the paved haul roads are covered with snow or ice. [R307-401]

II.B.4.d All unpaved roads and other unpaved operational areas that are used by mobile equipment shall be water sprayed and/or chemically treated to control fugitive dust. The application of water or chemical treatment shall be used. Treatment shall be of sufficient frequency and quantity to maintain the surface material in a damp/moist condition or unless it is below freezing. The opacity shall not exceed 20% during all times the areas are in use. If chemical treatment is to be used, the plan must be approved by the Executive Secretary. Records of water and/or chemical treatment shall be kept for all periods when the plant is in operation. The records shall include the following items:

- A. Date

- B. Number of treatments made, dilution ratio, and quantity
- C. Rainfall received, if any, and approximate amount
- D. Time of day treatments were made
- E. Records of temperature if the temperature is below freezing. [R307-401]

II.B.4.e The storage piles shall be watered to control fugitive dust emissions and ensure the opacity limits listed in this AO are not exceeded. The owner/operator may stop water application if the temperature is below freezing. Records of water and/or chemical treatment shall be kept for all periods when the plant is in operation. [R307-401]

Section III: APPLICABLE FEDERAL REQUIREMENTS

In addition to the requirements of this AO, all applicable provisions of the following federal programs have been found to apply to this installation. This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including UAC R307.

NSPS (Part 60), OOO: Nonmetallic Mineral Processing Plants

PERMIT HISTORY

This AO is based on the following documents:

Incorporates	additional information dated May 4, 2009
Incorporates	additional information dated April 1, 2009
Incorporates	additional information dated December 23, 2008
Is Derived From	the NOI dated July 31, 2008
Supersedes	the AO dated November 9, 2000

ACRONYMS

The following lists commonly used acronyms and their associated translations as they apply to this document:

40 CFR	Title 40 of the Code of Federal Regulations
AO	Approval Order
ATT	Attainment Area
BACT	Best Available Control Technology
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CDS	Classification Data System (used by EPA to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CO	Carbon monoxide
COM	Continuous opacity monitor
DAQ	Division of Air Quality (typically interchangeable with UDAQ)
DAQE	This is a document tracking code for internal UDAQ use
EPA	Environmental Protection Agency
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
MACT	Maximum Achievable Control Technology
NAA	Nonattainment Area
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOI	Notice of Intent
NO _x	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM ₁₀	Particulate matter less than 10 microns in size
PM _{2.5}	Particulate matter less than 2.5 microns in size
PSD	Prevention of Significant Deterioration
R307	Rules Series 307
R307-401	Rules Series 307 - Section 401
SO ₂	Sulfur dioxide
Title IV	Title IV of the Clean Air Act
Title V	Title V of the Clean Air Act
UAC	Utah Administrative Code
UDAQ	Utah Division of Air Quality (typically interchangeable with DAQ)
VOC	Volatile organic compounds

APPENDIX F

Bond No. 105858468

Agreement No. 20 -

**COMPLIANCE AGREEMENT AND
BOND FOR OPEN PIT MINING OPERATIONS
(Applicant is Property Owner)**

This Agreement is entered into this 1st day of January, 2013, by and between Utah County, a body corporate and politic of the State of Utah, with an address of 100 East Center Street, Suite 2400, Provo, Utah 84606, hereinafter referred to as "County";

Sunroc Corporation, with an address of PO Box 488, Spanish Fork, UT 84660, hereinafter referred to as "**Applicant**"; and

Travelers Casualty & Surety Co. of America, with an address of One Tower Square, Hartford, CT 06183, hereinafter referred to as "**Surety**."

WHEREAS, Applicant has requested a permit for the open pit extraction of earth products pursuant to the provisions of Section 3-24 of the Utah County Land Use Ordinance;

WHEREAS, pursuant to the provisions of Section 3-24-D of the Utah County Land Use Ordinance, the Applicant is required to post a cash or surety bond to guarantee compliance with the rehabilitation plan and with the provisions of Section 3-24 of the Utah County Land Use Ordinance;

WHEREAS, Surety desires to provide the required surety bond to guarantee that Applicant will comply with this Agreement, will comply with the rehabilitation plan, and will comply with the provisions of Section 3-24 of the Utah County Land Use Ordinance; and

WHEREAS, Applicant is the owner of the Property.

NOW THEREFORE, in consideration of the granting by County of a permit to Applicant, and in further consideration of the mutual obligations as set forth and described herein, the parties hereby agree as follows:

1. Applicant hereby represents and warrants to County that Applicant is the sole owner of the right to extract earth products using surface mining methods from that certain real property located in Utah County, State of Utah, which is more particularly described in **Exhibit "A,"** attached hereto and incorporated herein by this reference. Said real property is herein referred to as the "Property."
2. Applicant warrants to the County that Applicant has sufficient rights and control of the Property to rehabilitate the Property and otherwise comply with all of the regulations found in Section 3-24 of the Utah County Land Use Ordinance as currently in effect. A copy of said Section 3-24 is attached hereto as **Exhibit "B,"** and incorporated herein by this reference.

3. Applicant hereby agrees to comply with all of the requirements of Section 3-24 of the Utah County Land Use Ordinance, to rehabilitate the Property, in strict compliance with the requirements of Section 3-24 of the Utah County Land Use Ordinance, and in compliance with the provisions of the rehabilitation plan which has been submitted by the Applicant, a copy of which rehabilitation plan is attached hereto as **Exhibit "C,"** and incorporated herein by this reference, hereinafter referred to as the "Rehabilitation Plan," and which rehabilitation shall be completed on or before the earliest of the following dates:
- (i) December 31st of any year in which Applicant has not obtained from the County a then current business license for the open pit extraction of earth products from the Property;
 - (ii) December 31st of any year in which Applicant has not obtained from the County a then valid zoning compliance permit for the open pit extraction of earth products from the Property;
 - (iii) One year after the date of cessation of the operation to extract earth products from the Property;
 - (iv.) Seven (7) years from the date of this Agreement.
4. The County has required Applicant to post a bond assuring that Applicant will comply with all of the terms and provisions of this Agreement and assuring that the Property will be completely rehabilitated by Applicant according to the regulations contained in Section 3-24 of the Utah County Land Use Ordinance and in accordance with the Rehabilitation Plan. The bond is in the amount of \$ 103,447.31, hereinafter referred to as the "Bond." The amount of the Bond is based upon 27.7 acres, at \$ 3,734.56 per acre.
5. In the event that the County, in its sole discretion, determines that there has been a breach of this Agreement, the Board of County Commissioners may declare the Bond to be in default and may demand payment by Surety to County. Surety hereby agrees to deliver the full amount of the Bond, in the sum of ~~seven dollars & thirty one cents~~ ^{one hundred three thousand four hundred forty} Dollars (\$103,447.31), without reduction, or setoff, to County within ten (10) days after the date of mailing by County of a demand for payment to Surety. The demand for payment may be made by the Board of County Commissioners of Utah County, or by the Utah County Attorney, acting as an enforcement agent. In the event that the County elects to utilize the Bond proceeds to remedy any breach of this Agreement, and any excess funds remain, said excess shall be returned to Surety. No change, extension of time, alteration or addition to the work to be performed under this Agreement shall, in any way, affect the Surety's obligation on this Bond, and Surety does hereby waive notice of any change, extension of time, alteration or additions hereunder. Notwithstanding anything contained herein to the contrary, the obligation of Surety to pay the Bond amount to the County cannot expire, nor can

it be released, canceled, terminated, or withdrawn, without the prior express written consent of the Board of County Commissioners of Utah County.

6. Applicant hereby agrees, for itself, its successors and assigns, that if Applicant fails to comply with any term of this Agreement, Utah County and its agent, representatives, employees, and officials, may elect to enter the Property and shall have the right, but not the obligation, at County's sole discretion, to utilize the Bond proceeds to cure any default under this Agreement, to rehabilitate the Property, as required by the terms and provisions of the Rehabilitation Plan, and/or to bring the Property into compliance with the standards of Section 3-24 of the Utah County Land Use Ordinance. The County shall also have the right to use the Bond proceeds to pay all costs, damages, and expenses arising from or related to any breach of this Agreement, including but not limited to, construction costs, engineering costs, attorney's fees, litigation costs and expenses, collection costs, administration costs, payment for materialmen's or mechanic's liens, payments to contractors or subcontractors who have provided services or materials to the Property, and other costs. Applicant hereby agrees to indemnify and hold County and its agents harmless for and from all costs, expenses, and liabilities incurred by County or its agents, arising out of or related to, directly or indirectly, this Agreement, or any action taken to rehabilitate the Property, including attorney's fees and litigation expenses and costs.
7. If the County elects to enter the Property, Applicant shall be responsible for the payment of the premium for an insurance policy covering any liability, damage, loss, judgment, or personal injury to any person or property, including, but not limited to, damage to Applicant, to third parties, or their property, as a result of the work of the County, or of any contractor hired by County. The insurance company, the dollar amount, and the scope of the coverage of the insurance policy shall be determined and set by the County.
8. Applicant acknowledges and agrees that this Agreement only allows for the open pit extraction of earth products from the Property, and Applicant agrees to operate exclusively within the boundaries described for the pit, Exhibit "A," and to operate exclusively in accordance with the requirements of Section 3-24 of the Utah County Land Use Ordinance, regardless of the present condition of the Property, or other events. Notwithstanding anything contained in this Agreement, or in the Rehabilitation Plan, to the contrary, all cuts and fills shall be set back from the property ownership boundary, and from the boundary of the approved extraction site, a distance of at least fifteen (15) feet.
9. Notwithstanding the forfeiture of the Bond, Applicant shall retain liability and responsibility to fully comply with this Agreement, Section 3-24 of the Utah County Land Use Ordinance, and the Rehabilitation Plan.

10. In the event it becomes necessary to bring legal action to enforce the provisions of this Agreement, the prevailing party shall be entitled to a reasonable attorney's fee and associated court costs, as determined by the court. Nothing contained herein shall preclude or limit the County's ability to amend Section 3-24, or adopt new or amended provisions related to the extraction of earth products, nor shall this Agreement preclude or limit the County in requiring Applicant or Surety to comply with said new or amended provisions.
11. This Agreement shall be interpreted pursuant to the law of the State of Utah. Time shall be of the essence of this Agreement. The invalidity of any portion of this Agreement shall not prevent the remainder from being carried into effect. Whenever the context of any provision shall require it, the singular number shall be held to include the plural number, and vice versa, and the use of any gender shall include the other gender. The paragraph and section headings in this Agreement are for convenience only and do not constitute a part of the provisions hereof.
12. This Agreement, and the exhibits attached hereto, constitute a fully integrated agreement. No oral modifications or amendments to this Agreement shall be effective, but this Agreement may be modified or amended by written agreement signed by the parties. Should any provision of this Agreement require judicial interpretation, the Court interpreting or construing the same shall not apply a presumption that the terms hereof shall be more strictly construed against the party, by reason of the rule of construction that a document is to be construed more strictly against the person who himself or through his agents prepare the same, it being acknowledged that all parties have participated in the preparation hereof.
13. The parties to this Agreement shall not assign this Agreement, or any part hereof, without the prior written consent of the other parties to this Agreement. No assignment shall relieve the original parties from any liability hereunder. Without waiving the requirement for written consents prior to any assignment, this Agreement shall be binding upon the heirs, successors, administrators, and assigns of each of the parties hereto.
14. All notices, demands and other communications required or permitted to be given hereunder shall be in writing and shall be deemed to have been properly given if delivered by hand or by certified mail, return receipt requested, postage prepaid, to the parties at their addresses first above written, or at such other addresses as may be designated by notice given hereunder. The provisions of this Agreement shall not merge in any license, permit, conveyance, or any other document. The security provided by the Bond shall not be deemed to be a waiver by County of any claim arising out of this Agreement. This Agreement is not intended and shall not be construed to make any person, firm or corporation a third party beneficiary of any duty to be performed under this Agreement. The individuals signing this Agreement on behalf of the Applicant and Surety personally warrant to County that they are

SURETY

Travelers Casualty & Surety
Company of America

By: [Signature]
Its: W. Douglas Snow, Attorney-In-Fact

NOTARY

STATE OF UTAH)

:SS

COUNTY OF UTAH)

The foregoing instrument was acknowledged before me this 19th day of March, 2013,
by W. Douglas Snow, the ATTORNEY-IN-FACT of TRAVELERS CASUALTY & SURETY
CO OF AMERICA

[Signature]
NOTARY PUBLIC
ADAM SNOW
Notary Public State of Utah
My Commission Expires on:
October 7, 2015
Comm. Number: 649211

My Commission Expires: 10/7/2015

**BOARD OF COUNTY COMMISSIONERS
UTAH COUNTY, UTAH**

By: _____, Chairman

ATTEST
Bryan E. Thompson
Clerk/Auditor

By: _____
Deputy

TRAVELERS

POWER OF ATTORNEY

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company

Attorney-In Fact No. 226207

Certificate No. 005373181

KNOW ALL MEN BY THESE PRESENTS: That Farmington Casualty Company, St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company are corporations duly organized under the laws of the State of Connecticut, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

W. Douglas Snow, D. Cory Payne, James H. Dickson, Randall J. Austin, Aaron Griffith, Mark J. Austin, Susan R. Smith, Jace Pearson, Vicki Sorensen, Brady Thorn, and Adam Snow

of the City of Murray, State of Utah, their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 18th day of February, 2013.

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company



State of Connecticut
City of Hartford ss.

By: *Robert L. Raney*
Robert L. Raney, Senior Vice President

On this the 18th day of February, 2013, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.
My Commission expires the 30th day of June, 2016.



Marie C. Tetreault
Marie C. Tetreault, Notary Public

**Appendix
G**

APPENDIX G

Financial Assurance Calculations and Documentation
Sunroc Santquin Landfill

COST ESTIMATE FOR CLOSURE OF LANDFILL - SUNROC SANTAQUIN PIT (8/7/14)

Note: Numbering format follows the DSHW "Preparation of Closure - Post Closure Cost Estimate Guidance"
The numbered items in the guidance document not show in this estimate denote they are not applicable.

Item	Unit Measure	Cost/Unit	No. Units	Total Cost	Source	Note
1.0	Engineering & Preliminary					
	Site Work					
1.1	Aerial Survey	LS	9,400	1.00	\$ 9,400	Means 2014 - 02 21 13.16 1510
1.4	Development of Plant					see below Subtotal
1.5	Contract Administration					see below Subtotal
1.6	Administrative Cost for final cover certification & closure notice					see below Subtotal
1.7	Project Management					See below Subtotal
1.12	Remove Equipment				\$ -	See note (d)
	Subtotal				\$ 9,400	
	10% Contingency				\$ 940	
	Engineering Subtotal				\$ 10,340	

Item	Unit Measure	Cost/Unit	No. Units	Total Cost	Source	Note
2.0	Construction					
2.1	Final Cover System					
2.1.1a	Cover Soil Placement	cu yd	1.48	26,136	\$ 38,681	Means 2014 - 31 23 16.46 5000 Dozer costs-note (b)
2.1.1e	Cover Soil Transportation	cu yd	4.75	26,136	\$ 65,569	Means 2014 - 31 23 16.50 2100 Scraper costs -note (b)
2.2	Completion of Top cover					
2.2.1	Infiltration Layer					
2.1.1a	Top Soil Placement	cu yd	1.48	8,712	\$ 12,894	Means 2014 - 31 23 16.46 5000 Dozer costs-note (b)
2.1.1e	Top Soil Transportation	cu yd	4.75	8,712	\$ 41,382	Means 2014 - 31 23 16.50 2100 Scraper costs -note (b)
2.4	Revegetation					
2.4.1,2,3	Seeding, Fertilize, Mulch	acre	1,000	54	\$ 54,000	DOGM Avg. Re-seeding cost See note (a)
	Subtotal				\$ 212,526	
	10% Contingency				\$ 21,253	
	Construction Subtotal				\$ 233,779	

CALCULATION OF TOTAL CLOSURE COSTS						
	Engineering Total				\$ 10,340	
	Construction Total				\$ 233,779	
	SUBTOTAL				\$ 244,119	
	Development of Plans	2.5% OF Subtotal			\$ 6,102.97	
	Contract Administration	3.5% of Subtotal			\$ 8,544.15	
	Administrative Costs for final cover certification & closure notice	3.5% of Subtotal			\$ 8,544.15	
	Project Management	3.5% of Subtotal			\$ 8,544.15	
	Performance Bond	1.0%of Subtotal			\$ 2,441.19	
	Legal Fees	10% of Subtotal			\$ 24,411.86	
	TOTAL CLOSURE COSTS				\$ 302,707	

Financial Assurance Calculations and Documentation
Sunroc Santaquin Landfill

COST ESTIMATE FOR POST-CLOSURE OF LANDFILL - SANTAQUIN PIT (8/12/14)

Note: Numbering format follows the DSHW "Preparation of Closure - Post Closure Cost Estimate Guidance"
The numbered items in the guidance document not show in this estimate denote they are not applicable.

	Item	Unit Measure	Cost/Unit	No. Units	Total Cost	Source	Note
1.0	Engineering Cost						
1.2	Site Inspection and Record keeping	Hours	91.9	720	\$ 66,168		See note (e)
2.0	Maintenance Costs						
2.1.1	Soil Replacement Costs	cu yd	4.75	4356	\$ 65,569	Means 2014 - 31 23 16.50 2100	See notes (i)
2.1.2	Vegetation Reseeding	acres	13.5	1000	\$ 13,500		See notes (j)
	Subtotal				\$ 145,237		
	10% Contingency				\$ 14,524		
	Post-Closure Care Total				\$ 159,761		

TOTAL CLOSURE AND POST-CLOSURE COSTS				
	Total Closure Costs			\$ 302,707
	Total Post-Closure Costs			\$ 159,761
	Grand Total Costs			\$ 462,468

Financial Assurance Calculations and Documentation
Sunroc Santaquin Landfill

Note (a)	Wayne Western with DOGM was consulted on 8/14/14 by Brent Sumsion to determine				
	the average reseeding cost per acre that the DOGM is requiring in their surety				
	calculations and he reported that to be \$1,000 per acre.				

Note (b)	Cover Volumetrics (assume 25% Coverage as Sunroc will be covering land fill as it fills)						
	54 acres X .25 = 10.8 Acres will be the maximum uncovered landfill at any point in time.						
		Area(acres)	sq yds	Depth (ft)	Volume (cy)		
	Final Cover	10.8	470,448	1.5	26,136		
	Top Soil	10.8	470,448	0.5	8,712		

Note c	No monitoring wells are required at this landfill as no toxic chemicals or bio-hazardous materials will be placed in the fills.	
--------	---	--

Note (d)	This component is Not Applicable to this site as all equipment is mobile and will be remove under the Utah County pit reclamation bond which will remain in effect.		
	Site Inspection and record keeping		

Note e	hrs/inspect	inspec/yr	# yrs inspect	Total hours	\$/hr-labor	\$/hr-truck	\$/hr-total
	12	2	30	720	76.35	15.55	91.90
	Labor Rates for Outside Foreman Means 2014 p. 742						
	Pickup truck rate - Means 2014 01 54 33 40 7200						

Note (f)	No ground water sample collection required. Water table too deep.	
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Note (g)	Ground water sample analysis. Not applicable.	
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Note (h)	Ground water Sample Analysis Review and Reporting. Not applicable.	
----------	--	--

Note (i)	Soil Replacement					
	Assume 25%of total acreage at a dept of 6" would have to be replaced					
	Area (acres)	sq. ft.	% replaceme	depth (ft)	cu. Yds.	
	54	2,352,240	0.1	0.5	4,356	

Note (j)	Vegetation Reseeding					
	Assume 25% of total acreage would have to be reseeded					
	Total Acres	% Reseeded	acres reseeded			
	54	0.25	13.5			

OCT 14 2014
2014-013598

**INDEPENDENT ACCOUNTANT'S REPORT ON APPLYING AGREED-UPON
PROCEDURES**

To *Clyde Companies Inc.*
730 North 1500 West, Orem, UT 84057

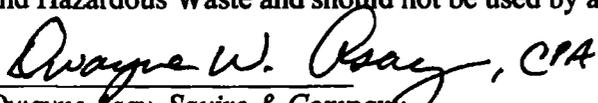
We have performed the procedures as specified in UAC R315-309-9 enumerated below, which were agreed to by the *Clyde Companies Inc.*, solely to assist you and the Utah division of Solid and Hazardous Waste in evaluating the *Clyde Companies, Inc.*'s use of the financial test to demonstrate financial assurance for closure and post-closure care during the year ended 2013. This engagement to apply agreed-upon procedures was performed in accordance with standards established by the American Institute of Certified Public Accountants. The sufficiency of these procedures is solely the responsibility of the specified users of this report. Consequently, we make no representation regarding the sufficiency of the procedures described below either for the purpose for which this report has been requested or for any other purpose. This report does not constitute a legal determination as to *Clyde Companies Inc.*'s compliance with specified requirements.

The procedures that we performed and our findings are as follows:

- 1 We compared the numerical information appearing on page 2 (Part II; [Fill in Alternative I or II] of the accompanying letter dated *October 14, 2014*, items 1, 2, and 3, to the year-end financial statements of *Clyde Companies Inc* for the year ended December 31, 2013, and found them to be in agreement.
- 2 We recomputed the numerical or percentage information required on page 2 (Part II; Alternative II) based on the above information and found them to be mathematically correct. [Use only if using Alternative II]
- 3 We have audited the financial statements of the *Clyde Companies Inc* as of December 31, 2013. As reported in the Independent Auditor's Report dated *March 31, 2014*, our audit includes expressing an opinion regarding these financial statements, and assessing the accounting principles used. We confirm that the *Clyde Companies Inc* financial statements are prepared in conformity with Generally Accepted Accounting Principles, and that the *Clyde Companies Inc* financial statements did not receive an adverse opinion, disclaimer of opinion, or other qualified opinion.

We were not engaged to perform an examination, the objective of which would be the expression of an opinion on the specified elements, accounts, or items. Accordingly, we do not express such an opinion. Had we been engaged to perform additional procedures, other matters might have come to our attention that would have been reported to you.

This report is furnished for the use of *Clyde Companies, Inc.* and the Utah Division of Solid and Hazardous Waste and should not be used by anyone other than these specified parties.


Dwayne Asay, Squire & Company
October 13, 2014

OCT 14 2014
2014-013599

**LETTER FROM CHIEF FINANCIAL OFFICER OR CONTROLLER FOR THE
CORPORATE FINANCIAL TEST**

Scott T. Anderson, Director
Utah Division of Solid and Hazardous Waste
PO Box 144880
Salt Lake City, Utah 84114-4880

Dear Mr. Anderson:

I am the Controller of *Clyde Companies, Inc.* This letter is in support of the use of the financial test to demonstrate financial assurance for closure, post-closure care, or corrective action for cost estimates listed below by the corporation financial test.

Part I.

Sunroc Corp is the owner or operator of the following facilities in Utah for which financial assurance for closure or post-closure care is demonstrated through the financial test specified in R315-309-9. The current closure and/or post-closure cost estimates covered by the test are shown for each facility. *(Include all landfill facilities.)*

a.

Name & Permit Number: Sunroc Santaquin Pit Landfill #1404 _____
Address: South Santaquin Frontage Road, Santaquin, UT 84655 _____
Closure Cost Estimate: \$302,707 _____
Post-Closure Cost Estimate: \$159,761 _____

b.

Name & Permit Number: _____
Address: _____
Closure Cost Estimate: _____
Post-Closure Cost Estimate: _____

Total of all current closure and post-closure cost estimates from all facilities listed above: \$462,468 _____

The fiscal year of Clyde Companies, Inc. ends on December 31. The Clyde Companies, Inc. independently audited, fiscal year-end financial statements for the latest completed fiscal year, have been placed in the facilities operating record. *(A copy of the financial statements and the auditor's special report should be attached to this letter).*

Part II

Provide evidence demonstrating that the corporation/guaranteeing corporation meets all the requirements of R315-309-9(3)(a)(ii), to include the following:

The owner or operator must satisfy one of the following three Alternatives:

Alternative I - Current Rating for its senior unsubordinated debt of AAA, AA, A or BBB as issued by Standard and Poor's or Aaa, Aa, or Baa as Issued by Mood's as required by R315-309-9(2)(a)(i).

Yes () No () If Yes Provide Evidence

Alternative II - Financial Ratio of less than 1.5 comparing Total Liabilities to Net Worth

Yes (X) No () If Yes Provide Evidence

Alternative III - Financial Ratio of greater than 0.10 comparing the sum of net income plus depreciation, depletion and amortization, minus \$10million, to liabilities

Yes () No () If Yes Provide Evidence

Part III

Submit a copy of the independent certified public accountant unqualified opinion of the owner/operator or guaranteeing corporation financial statements for the latest completed fiscal year.

The financial statements must include the following financial information

Tangible Net Worth

The tangible net worth of the owner/operator or guaranteeing corporation must be greater than:

The sum of the current closure, post-closure, and corrective action cost estimates and any other obligation, including guarantees, covered by a financial test plus \$10 million except as provided in R315-309-9(2)(b)(ii)

Yes (X) No () If Yes Provide Evidence

10 million in net worth plus amount of any guarantees that have not been recognized as liabilities on financial statement provided all of the current closure, post-closure, and corrective action cost estimates and any other obligation covered by the financial test are recognized as liabilities on the owner/operator or guaranteeing corporation audited statements subject to approval by the Director

Yes () No (X) If Yes Provide Evidence (We did not have estimated closing or post-closing costs included in our 2013 financial statements as a liability; however, our tangible net worth and net income far exceed the total estimated closing costs.)

The owner/operator or guaranteeing corporation must have assets in the United States amounting to at least the sum of current closure, post-closure, and corrective action cost estimates and any other obligation covered by the financial test.

Yes (X) No () If Yes Provide Evidence

Part IV

I hereby certify that the statements, evidence provided, and certifications made in Parts I through III above are correct and that *Clyde Companies, Inc.* meets the requirements of UAC R315-309-9 (*all/a portion*) of the assured costs for closure, post-closure care, and/or corrective action for the above named facilities. (*If less than 100% indicate the other financial assurance mechanism(s) to be used*).



Robert C Hayes, Senior Controller
October 13, 2014

OCT 14 2014
2014-013600

STATE OF UTAH
SOLID WASTE MANAGEMENT FACILITY CORPORATE GUARANTEE
TO DEMONSTRATE FINANCIAL ASSURANCE

Closing Long-Term Care Corrective Action

Check Appropriate Box(es)

Guarantee made this October 14, 2014 by Clyde Companies, Inc., a business corporation organized under the laws of the State of Utah, herein referred to as guarantor. This guarantee is made on behalf of the Sunroc Corporation of 730 North 1500 West, Orem, UT 84057, which is our subsidiary, to the Director of the Utah division of Solid and Hazardous Waste.

Recitals

1. Guarantor meets or exceeds the financial test criteria as specified in Utah Administrative Code (UAC) R315-309-9(2) and agrees to comply with the reporting requirements for guarantors as specified in UAC R315-309-9(6)(d) and (e).
2. Sunroc Corp owns or operates the following solid waste management facility covered by this guarantee for closure and post-closure care: Santaquin Pit (permit #1404).
3. "Closure plans" and "post-closure plans" as used below refer to the plans maintained as required by UAC R315-302-3 for the closure and post-closure care of facilities as identified above.
4. For value received from Sunroc Corp, guarantor guarantees to the Director of the Utah Division of Solid and Hazardous Waste that in the event that Sunroc Corp fails to perform closure and post-closure care of the above facility(ies) in accordance with the closure or post-closure plans and other permit requirements whenever required to do so, the guarantor shall do so or establish a trust fund as specified in UAC R315-309-3(1)(c), in the name of Sunroc Corp in the amount of the current closure and post-closure cost estimates as specified in the permit.
5. Guarantor agrees that if, at the end of any fiscal year before termination of this guarantee, the guarantor fails to meet the financial test criteria, guarantor shall send within 90 days, by certified mail, notice to the Director of the Utah Division of Solid and Hazardous Waste and to Sunroc Corp that he intends to provide alternate financial assurance as specified in UAC R315-309, in the name of Sunroc Corp. Within 120 days after the end of such fiscal year, the guarantor shall establish such financial assurance unless Sunroc Corp has done so.
6. The guarantor agrees to notify the Director of the Utah Division of Solid and Hazardous Waste by certified mail, of a voluntary or involuntary proceeding under Title 11 (Bankruptcy), U.S. Code, naming guarantor as debtor, within 10 days after commencement of the proceeding.

7. Guarantor agrees that within 30 days after being notified by the Director of the Utah Division of Solid and Hazardous Waste of a determination that guarantor no longer meets the financial test criteria or that he is disallowed from continuing as a guarantor of closure or post-closure care, he shall establish alternate financial assurance as specified in UAC R315-309, in the name of Sunroc Corp unless Sunroc Corp has done so.

8. Guarantor agrees to remain bound under this guarantee notwithstanding any or all of the following: amendment or modification of the closure or post-closure plan, amendment or modification of the permit, the extension or reduction of the time of performance of closure or post-closure, or any other modification or alteration of an obligation of the owner or operator pursuant to UAC R315-301 through 320.

9. Guarantor agrees to remain bound under this guarantee for as long as Sunroc Corp must comply with the applicable financial assurance requirements of UAC R315-309 for the above-listed facilities, except as provided in paragraph 10 of this agreement.

10. Guarantor may terminate this guarantee 120 days following notice by certified mail to the Director of the Utah Division of Solid and Hazardous Waste and to Sunroc Corp, provided that this guarantee may not be terminated unless and until Sunroc Corp obtains, and the Director of the Utah Division of Solid and Hazardous Waste approves, alternate closure and post-closure care coverage complying with UAC R315-309.

11. Guarantor agrees that if Sunroc Corp fails to provide alternate financial assurance as specified in UAC R315-309, and obtain written approval of such assurance from the Director of the Utah Division of Solid and Hazardous Waste within 90 days after a notice of cancellation by the guarantor is received by the Director of the Utah Division of Solid and Hazardous Waste from guarantor, guarantor shall provide such alternate financial assurance in the name of Sunroc Corp.

12. Guarantor expressly waives notice of acceptance of this guarantee by the Director of the Utah Division of Solid and Hazardous Waste or by Sunroc Corp. Guarantor also expressly waives notice of amendments or modifications of the closure and post-closure plan and of amendments or modifications of the facility permit.

13. The persons whose signatures appear below hereby certify that they are authorized to execute this Corporate Guarantee on behalf of Sunroc Corp.

Effective date: 10/13/14

[Name of guarantor] Clyde Companies, Inc

[Authorized signature for guarantor] Robert C. Hayes

[Name of person signing] Robert C. Hayes

[Title of person signing] Senior Controller

Signature of witness or notary: B.R. Sun

UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF SOLID AND HAZARDOUS WASTE

CORPORATE FINANCIAL TEST WORKSHEET

Costs to be Assured by the Financial Test

1. Solid Waste Facilities Owned or Operated (Sum of Part I)	\$ 462,468
2. Other Sites Assured or Guaranteed in any Jurisdiction (Sum of Part I)	\$ 0
3. Sum of all Costs Assured by Financial Test	\$ 462,468

Financial Test Factors

4.* Total Net Worth	\$ 252,454,000
5.* Less Intangible Assets	\$ 516,090,000
6.* Tangible Net Worth	\$ 236,364,000
7.* Total Liabilities	\$ 133,040,000
8.* Sum of Net Income (NI), Depletion, Depreciation and Amortization (DDA)	\$ 33,573,000
9.* Assets Located within the United States	\$ 375,500,000
10. Standard Factor (\$10MM)	\$

Financial Test Calculations

A. Enter Three; Pass One

1. Senior Unsubordinated Debt Rating Rating Agency _____ (Attach written evidence showing the current rating from the rating agency)	
2. Total Liabilities / Net Worth (Line 7 divided by Line 4 = < 1.50)	.79
3. NI and DDA minus \$10MM / Total Liabilities (Line 8 minus \$10MM divided by Line 7 = > 0.10)	.19

B. Enter Two; Pass One

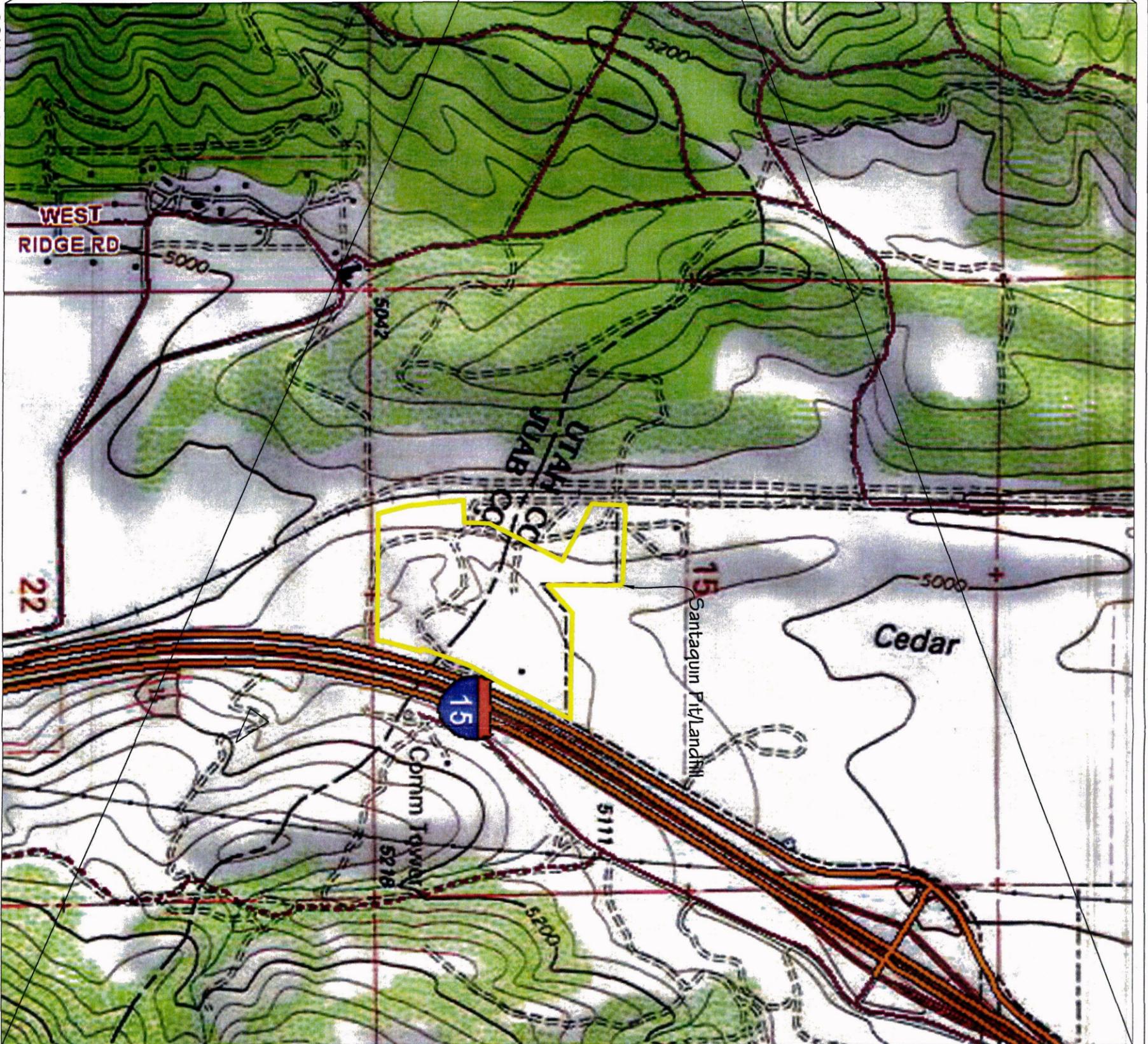
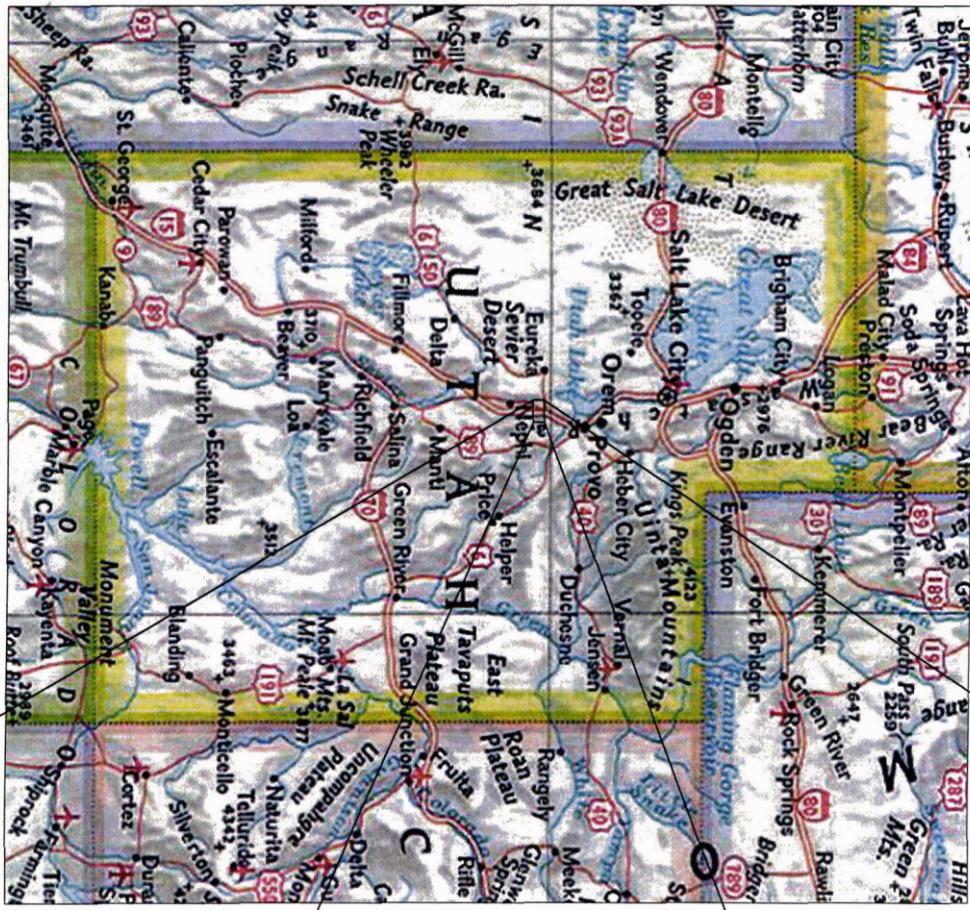
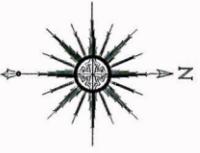
1. Sum of Costs Assured plus \$10MM / Tangible Net Worth (Line 1 plus \$10MM divided by Line 6 = < 1.00)	.044
2. Net Costs Assured plus \$10MM / Tangible Net Worth (Line 3 plus \$10MM divided by Line 6 = < 1.00)	

C. Enter and Pass One

1. Sum of Costs Assured / Assets Located in the U. S. (Line 1 divided by Line 9 = < 1.00)	.001
--	------

* Derived from audited financial statements.

FIGURES APPENDIX



SCALE: 1" = 1,000'

Drawn: B SUMSION
 Checked: BS/WH
 Approved:
 Date: 5/6/14
 Dwg. No.

TITLE:
 SUNROC SANTAQUIN
 TOPOGRAPHIC LOCATION MAP
 ISSUED FOR INTERNAL REVIEW
 Revision: 00

Engineer:
 NO. DATE: DESCRIPTION: BY:

USGS TOPOGRAPHIC MAP
 S.15, T.10 S., R.1E., SLB#M



Sunroc Corporation
 P.O. Box 1955
 Orem, Utah 84059
 801-802-6900



Drawn: B SUMSION
 Checked: BS/WH
 Approved:
 Date: 10/2/13
 Dwg. No.

TITLE:
 SUNROC SANTAQUIN PIT
 ORIGINAL CONTOURS
 ISSUED FOR INTERNAL REVIEW

Revision:
 00

NO.	DATE	DESCRIPTION	BY:

Utah County Plat Over Aerial of
 Santaquin Pit
 S. 15, T. 10 S., R. 1 E., SLB#M



Sunroc Corporation
 P.O. Box 1955
 Orem, Utah 84059
 801-802-6900



Drawn: B SUMSION
 Checked: BS/WH
 Approved:
 Date: 10/2/13
 Dwg. No.

TITLE:
**SUNROC SANTAQUIN PIT
 MINED PIT CONTOURS**
 ISSUED FOR INTERNAL REVIEW
 Revision:
 00

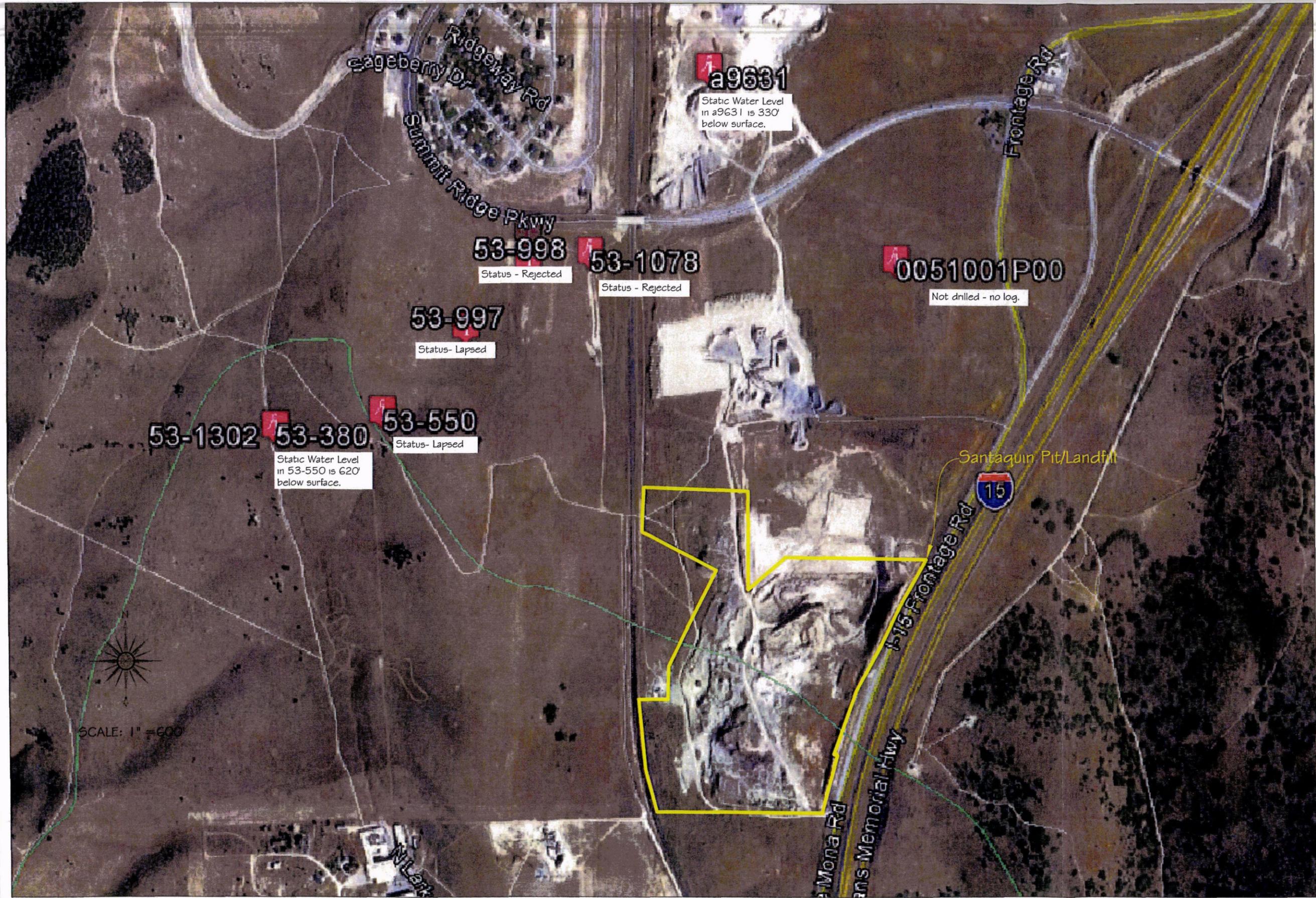
Engineer:

 NO. DATE: DESCRIPTION: BY:

Utah County Plat Over Aerial of
 Santaquin Pit
 S. 15, T. 10 S., R. 1 E., SLB#M



Sunroc Corporation
 P.O. Box 1955
 Orem, Utah 84059
 801-802-6900



Drawn:	B. SUMSION	TITLE:	SUNROC SANTAQUIN PIT	Engineer:		NO.	DATE:	DESCRIPTION:	BY:
Checked:	BS/WH	Adjoining Well Locations							
Approved:		ISSUED FOR INTERNAL REVIEW							
Date:	10/2/13								
Dwg. No.									

Utah County Plat Over Aerial of
 Santaquin Pit
 S.15, T.10 S., R. 1 E., SLB#M



Sunroc Corporation
 P.O. Box 1955
 Orem, Utah 84059
 801-802-6900

Utah Online Services Agency List Business

Search

Utah Division of Water Rights



Select Related Information

(WARNING: Water Rights makes NO claims as to the accuracy of this data.) RUN DATE: 05/06/2014

The Paper Fileroom File for this Water Right has been DESTROYED!!!

WATER RIGHT: 53-550 APPLICATION/CLAIM NO.: A44018 CERT. NO.:

OWNERSHIP*****

NAME: Jack R. and Audra S. Hendrickson
ADDR: 3665 Burning Tree Drive
Bloomfield Hills MI 48013

DATES, ETC.*****

LAND OWNED BY APPLICANT? Yes COUNTY TAX ID#:
FILED: 08/14/1974|PRIORITY: 08/14/1974|PUB BEGAN: |PUB ENDED: |NEWSPAPER:
ProtestEnd: |PROTESTED: [No]|HEARNG HLD: |SE ACTION: [Approved]|ActionDate:11/06/1974|PROOF DUE:
EXTENSION: |ELEC/PROOF:[]|ELEC/PROOF: |CERT/WUC: |LAP, ETC: 02/08/1980|LAPS LETTER:
RUSH LETTR: |RENOVATE: |RECON REQ: |TYPE: []
PD BOOK: [53-]|MAP: []|PUB DATE:

*TYPE -- DOCUMENT -- STATUS--
Type of Right: Application to Appropriate Source of Info: Application to Appropriate Status: Lapsed

LOCATION OF WATER RIGHT*** (Points of Diversion: Click on Location to access PLAT Program.)*****MAP VIEWER***GOOGLE VIEW*

FLOW: 0.015 cfs
SOURCE: Underground Water Well
COUNTY: Juab COMMON DESCRIPTION:

POINT OF DIVERSION -- UNDERGROUND: (Click Well ID# link for more well data.)
(1) N 100 ft E 100 ft from W4 cor, Sec 15, T 10S, R 1E, S1E4
DIAMETER OF WELL: 4 ins. DEPTH: 100 to 500 ft. YEAR DRILLED: WELL LOG? No WELL ID#:

USES OF WATER RIGHT***** ELU -- Equivalent Livestock Unit (cow, horse, etc.) ***** EDU -- Equivalent Domestic Unit or 1 Family
(The Beneficial Use Amount is the quantity of Use that this Water Right contributes to the Group Total.)

DIVERSION & DEPLETION ESTIMATES*****

Table with columns: IRRIGATION, STOCK, DOMESTIC, MUNICIPAL, MINING, POWER, OTHER, MANUALLY EVALUATED, ACRE-FEET EXPORTED, DIVERSION DUTY, DEPLETION DUTY, GROWING WATER-USE SEASON REPORTING. Includes a row for 'DIV:' and 'DEP:' and ends with '*****END OF DATA*****'

Utah Online Services Agency List Business

Search

Utah Division of Water Rights



Select Related Information

(WARNING: Water Rights makes NO claims as to the accuracy of this data.) RUN DATE: 05/06/2014 Page 1

CHANGE: a9631 WATER RIGHT: 53-997 CERT. NO.: COUNTY TAX ID#:
BASE WATER RIGHTS: 53-997
RIGHT EVIDENCED BY: 53-997 (A42655)
CHANGES: Point of Diversion [X], Place of Use [], Nature of Use [], Reservoir Storage []

NAME: Jack R. & Audra S. Hendrickson
ADDR: Box 315
Bicknell UT 84715

REMARKS:

FILED: 07/18/1977 PRIORITY: 07/18/1977 ADV BEGAN: ADV ENDED: NEWSPAPER:
ProtestEnd: PROTESTED: {No} HEARING HLD: SE ACTION: [] ActionDate:01/11/1978 PROOF DUE:
EXTENSION: ELEC/PROOF:[] ELEC/PROOF: CERT/WUC: LAP, ETC: LAPS LETTER:
RUSH LETTR: RENOVATE: RECON REQ: TYPE: []
Status: Lapsed

*****HERETOFORE*****
*****HEREAFTER*****

FLOW: 0.015 cfs
SOURCE: Underground Water Well
COUNTY: Utah
FLOW: 0.015 cfs
SOURCE: Underground Water Well
COUNTY: Utah CQM DESC: 2.3 miles SW of Santaquin

POINT(S) OF DIVERSION -----> MAP VIEWER***GOOGLE VIEW
Point Underground:
(1) S 1970 ft E 660 ft from NW cor, Sec 15, T 10S, R 1E, SLBM
Diameter: 6 ins. Depth: 100 to 500 ft. WELL ID#: 000000
CHANGED AS FOLLOWS: (Click Location link for WRPLAT)
UNDERGROUND: (Click Link for PLAT data, Well ID# link for data.)
(1) S 200 ft E 2400 ft from NW cor, Sec 15, T 10S, R 1E, SLBM
Diameter: 6 ins. Depth: 100 to 500 ft. WELL ID#:

PLACE OF USE ----->
SAME AS HERETOFORE
--NW*-- --NE*-- --SW*-- --SE*--
|N N S S| |N N S S| |N N S S| |N N S S|
|W E W E| |W E W E| |W E W E| |W E W E|
|Sec 15 T 10S R 1E SLBM *X:X:X** : : * : : * : : *

NATURE OF USE ----->
SAME AS HERETOFORE
IRR = values are in acres.
STK = values are in ELUs meaning Cattle or Equivalent.
DOM = values are in EDUs meaning Equivalent Domestic Units
(or Families).
SUPPLEMENTAL to Other Water Rights: No
IRR: 0.2500 acres. USED 04/01 - 10/31
STK: 3.0000 ELUs. USED 01/01 - 12/31
DOM: 1.0000 EDUs. USED 01/01 - 12/31

*****E N D O F D A T A*****

WELL DRILLER'S REPORT

State of Utah
Division of Water Rights

RECEIVED

For additional space, use "Additional Well Data Form" and attach

MAY 10 2000

Notification

PROVISIONAL WELL: 00-51-001-P-02

WATER RIGHTS
SALT LAKE

Owner Note any changes

Santaquin City
25 East 500 North
Fillmore, UT 84631

Contact Person/Engineer: DAVE LUND (SUNRISE ENGR.)

Well Location Note any changes

SOUTH 1500 feet WEST 1500 feet from the NE Corner of
SECTION 15, TOWNSHIP 10S, RANGE 1E, SLB&M.

Location Description: (address, proximity to buildings, landmarks, ground elevation, local well #)

Drillers Activity

Start Date: 4/8/00

Completion Date: 5/8/00

Check all that apply:

New Repair Deepen Abandon Replace Public Nature of Use: TEST Well

DEPTH (feet) FROM	TO	BOREHOLE DIAMETER (in)	DRILLING METHOD	DRILLING FLUID
0	247	7 7/8"	Mud Rotary	BENTONITE/WATER
247	340	6 1/8"	Mud Rotary	BENTONITE/WATER
	420	6 1/8"	AIR	FOAM

Well Log	WATER	PERMEABLE		UNCONSOLIDATED							CONSOLIDATED		ROCK TYPE	COLOR	DESCRIPTIONS AND REMARKS (include comments on water quality if known.)
		high	low	CLAY	SILT	SAND	GRAVEL	COBBLES	BOULDER	OTHER					
0	2'	X													Topsoil
2	18'			X	X	X									LT Blue
18	160'			X		X	X	X							CEMENTED
160'	164'									X					
164'	245'			X	X		X	X							TAN HARD
245'	345'	X													Volcanic BLACK VERY HARD
345'	400'	X				X	X								CEMENTED (ABLE to drill w/AIR)
400'	420'			X		X									

Static Water Level

Date: 5/1/00 Water Level 143 feet Flowing? Yes No

Method of Water Level Measurement Piezometer If Flowing, Capped Pressure _____ PSI

Point to Which Water Level Measurement was Referenced Top of ground

Height of Water Level reference point above ground surface _____ feet Temperature 7 °C °F

Construction Information

DEPTH (feet)		CASING			DEPTH (feet)		SCREEN <input type="checkbox"/>	PERFORATIONS <input type="checkbox"/>	
FROM	TO	CASING TYPE AND MATERIAL/GRADE	WALL THICK (in)	NOMINAL DIAM. (in)	FROM	TO	SLOT SIZE OR PERF SIZE (in)	SCREEN DIAM. OR PERF LENGTH (in)	SCREEN TYPE OR NUMBER PERF (per round/interval)
0	247'	STEEL A53-B	.250	6"					

Well Head Configuration: CAPPED Access Port Provided? Yes No
 Casing Joint Type: Welded Perforator Used: NO

DEPTH (feet)		FILTER PACK / GROUT / PACKER / ABANDONMENT MATERIAL		
FROM	TO	ANNULAR MATERIAL, ABANDONMENT MATERIAL and/or PACKER DESCRIPTION	Quantity of Material Used (if applicable)	GROUT DENSITY (lbs./gal., # bag mix, gal./sack etc.)
		<u>NO SEAL - CASING WILL BE EXTRACTED</u>		

Well Development / Pump or Bail Tests

Date	Method	Yield	Units Check One		DRAWDOWN (ft)	TIME PUMPED (hrs & min)
			GPM	CFS		
5/1/00	Pump	200	X		15 ft.	32 hrs.

Pump (Permanent) N/A

Pump Description: _____ Horsepower: _____ Pump Intake Depth: _____ feet

Approximate maximum pumping rate: _____ Well disinfected upon completion? Yes No

Comments Description of construction activity, additional materials used, problems encountered, extraordinary circumstances, abandonment / procedures. Use additional well data form for more space.
Well is a test well - will be abandoned at a later date.

Well Driller Statement This well was drilled or abandoned under my supervision, according to applicable rules and regulations, and this report is complete and correct to the best of my knowledge and belief.

Name TRI-STATE Drilling
 (Person, Firm, or Corporation - Print or Type)

License No. #710

Signature Robert C. Bush
 (Licensed Well Driller)

Date 5/8/00

Construction Information

DEPTH (feet)		CASING			DEPTH (feet)		SCREEN <input type="checkbox"/>	PERFORATIONS <input type="checkbox"/>	
FROM	TO	CASING TYPE AND MATERIAL/GRADE	WALL THICK (in)	NOMINAL DIAM. (in)	FROM	TO	SLOT SIZE OR PERF SIZE (in)	SCREEN DIAM. OR PERF LENGTH (in)	SCREEN TYPE OR NUMBER PERF (per round/interval)
	430	CERTA-LOK PVC 3DR17		6"					
* Not PERMANENT will be removed.									

Well Head Configuration: ~~Standard~~ Access Port Provided? Yes No
 Casing Joint Type: CERTA-LOK Perforator Used: _____

DEPTH (feet)		FILTER PACK / GROUT / PACKER / ABANDONMENT MATERIAL		
FROM	TO	ANNULAR MATERIAL, ABANDONMENT MATERIAL and/or PACKER DESCRIPTION	Quantity of Material Used (if applicable)	GROUT DENSITY (lbs./gal., # bag mix, gal./sack etc.)

Well Development / Pump or Bail Tests

Date	Method	Yield	Units Check One		DRAWDOWN (ft)	TIME PUMPED (hrs & min)
			GPM	CFS		
	AIRLIFT	150	X		120 ft	5 hrs

Pump (Permanent)
 Pump Description: _____ Horsepower: _____ Pump Intake Depth: _____ feet
 Approximate maximum pumping rate: _____ Well disinfected upon completion? Yes No

Comments Description of construction activity, additional materials used, problems encountered, extraordinary circumstances, abandonment / procedures. Use additional well data form for more space.
 Drilled hole to 430', Cased w/ 6" PVC, drilled to 500' and Airlifted well, continued mud rotary to 700' for geology. CASING will be removed.

Well Driller Statement This well was drilled or abandoned under my supervision, according to applicable rules and regulations, and this report is complete and correct to the best of my knowledge and belief.
 Name: IR - STATE Drilling License No. 710
 Signature: Robert C. Keeble Date: 4/18/00
 (Licensed Well Driller)

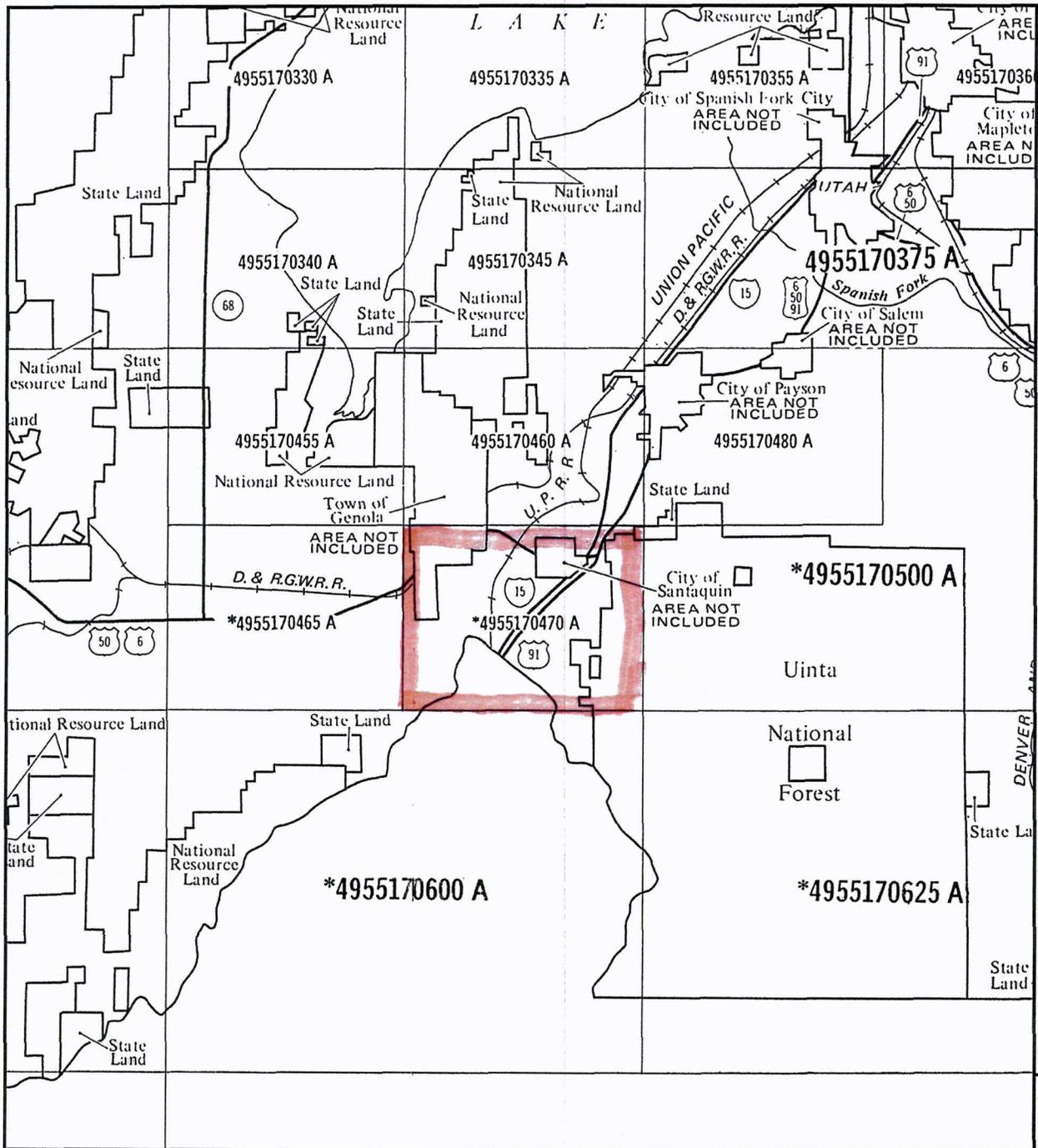
ADDITIONAL WELL DATA FORM

Water Right # _____

OWNER NAME _____

Page ____ of ____

Well Log		WATER	PERMEABLE		UNCONSOLIDATED					CONSOLIDATED	ROCK TYPE	COLOR	DESCRIPTIONS AND REMARKS (include comments on water quality if known.)
			high	low	CLAY	SILT	SAND	GRAVEL	COBBLES	BOULDER			
DEPTH (feet)	FROM	TO											
0	4												Topsoil
4	12		/			XX							loose
12	45		X				XX						
45	78		X						X				
78	178		XX			XX						Pink	
178	205		XX			X						RED	HARD
205	258		X										HARD CONSISTENT layer
258	278				X		XX						Brown
278	285								X				
285	310				XX		XX						Brown
310	358				X		XX						RED
358	398	?			X		XX						Brown WATER POSSIBLE
398	428				X		X						Brown
428	445		XX				XX						
445	480				XX		X						Brown
480	500				XX		X						TAN
500	510								X				HARD Rock ledge or Boulder
510	515	?					XX						Possible WATER
515	536				XX		X						TAN
536	540				X				X				Rock ledge or Boulder
540	550				XX		XX						Brown
550	556		X				X						SAND STRATA (possible water)
556	650				XX		XX						TAN
650'	660'				XX				X				TAN
660'	680'				XX		X						TAN
680'	700'				XX				X				TAN



NATIONAL FLOOD INSURANCE PROGRAM

**FIRM
FLOOD INSURANCE RATE MAP**

UTAH COUNTY,
UTAH
(UNINCORPORATED AREAS)

MAP INDEX

PANELS PRINTED: 105, 110, 115,
120, 140, 145, 205, 210, 215, 220,
230, 240, 265, 330, 335, 340, 345,
355, 360, 375, 380, 455, 460, 480,
503

COMMUNITY-PANEL NUMBER

495517IND0

MAP REVISED:

JULY 17, 2002



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

**STORM WATER MANAGEMENT PLAN
APPENDIX**

STORM WATER
MANAGEMENT PLAN

SANTAQUIN PIT & LANDFILL

Prepared for:
SUNROC CORPORATION



Prepared by

 **CLYDE COMPANIES INC.**

CLYDE COMPANIES INC.
730 NORTH 1500 WEST
OREM, UT 84057
(801) 802-6900

TABLE OF CONTENTS

1.0	BACKGROUND	2
1.1	UPDES PERMIT.....	2
1.2	WAIVER	2
2.0	STORM WATER MANAGEMENT PLAN (SWMP)	2
2.1	FACILITY CONTACTS.....	3
2.2	FACILITY MAPS	3
3.0	POLLUTANT SOURCES.....	3
3.1	INVENTORY OF MATERIALS.....	3
3.1.1	<i>Practices used to minimize contact of materials with rainfall and runoff.....</i>	<i>4</i>
3.1.2	<i>Existing nonstructural controls that reduce pollutants in storm water runoff.....</i>	<i>4</i>
3.1.3	<i>Structural controls that reduce pollutants and storm water runoff.....</i>	<i>4</i>
3.2	RISK IDENTIFICATION AND SUMMARY OF POTENTIAL POLLUTANT SOURCES	4
3.2.1	<i>Loading and unloading operations.....</i>	<i>4</i>
3.2.2	<i>Outdoor manufacturing/process activities</i>	<i>4</i>
3.2.3	<i>Dust/particle generating activities.....</i>	<i>5</i>
3.2.4	<i>On-site waste disposal practices</i>	<i>5</i>
3.2.5	<i>Miscellaneous liquid sources/activities.....</i>	<i>5</i>
4.0	MEASURES AND CONTROLS	5
4.1	GOOD HOUSEKEEPING	6
4.2	PREVENTIVE MAINTENANCE	6
4.3	OTHER CONTROLS.....	6
4.4	INSPECTIONS	6
4.5	EMPLOYEE TRAINING.....	7
4.6	RECORD KEEPING AND INTERNAL REPORTING PROCEDURES.....	7

APPENDICES

A	FACILITY CONTACT INFORMATION AND REPORTING PROCEDURES
B	FACILITY MAPS
C	INSPECTION REPORT FORMS
D	COMPLETED INSPECTION REPORT FORMS
E	EMPLOYEE TRAINING RECORDS

1.0 BACKGROUND

1.1 UPDES Permit

In 1972, Congress passed the Federal Water Pollution Control Act (FWPCA), also known as the Clean Water Act (CWA), to restore and maintain the quality of the nation's waterways. The ultimate goal was to make sure that rivers and streams were fishable, swimmable, and drinkable. In 1987, the Water Quality Act (WQA) added provisions to the CWA that allowed the EPA to govern storm water discharges from industrial activities. EPA published the final notice for Phase I of the Multi-Sector General Storm Water Permit program (Federal Register Volume 60 No. 189, September 20, 1995, page 50804) in 1995 which included provisions for the development of a Storm Water Pollution Prevention Plan (SWPPP) by each industrial facility discharging storm water, including ready mix concrete facilities, asphalt production facilities, and sand and gravel mining operations.

The Utah Division of Water Quality developed the state-wide Utah Pollutant Discharge Elimination System (UPDES) program based on the federal standards. Utah is now in charge of its own state program – that is, it has “primacy” over the federal program.

The UPDES Permit is the mechanism Utah uses to regulate “point-source” discharges¹, including storm water discharges, to surface waters of the State. The SWP3 provides a site-specific, operator-driven set of pollution control standards for any discharges that occur at a particular industrial facility. A state-side “General Industrial Storm Water Permit” provides a blanket UPDES permit to those operators who certify that their SWP3 meets the standards set out in the UPDES program. The program has different standards depending on the industrial sector involved.

1.2 Waiver

This facility does not discharge storm water and is not required to obtain a UDPEs permit. The facility shall be inspected and evaluated for the necessity of a permit whenever:

1. There is a significant change in the acreage disturbed; or a significant change to the design, construction, operation, or maintenance of on-site facilities that could have a significant effect on the quantity of runoff;
2. The inspection reveals a new discharge of water or one that has not previously been recognized by facility personnel.

If the evaluation reveals that the facility is not longer capable of containing runoff, and a significant discharge is found, then a UPDES permit shall be acquired and a SWP3 shall be implemented. The SWP3 shall be specific to the site and follow the guidelines as outlined for the sector under which the facility operates (J: Sand and Gravel Operations).

2.0 STORM WATER MANAGEMENT PLAN (SWMP)

Clyde Companies has prepared a general Storm water Management Plan that is adaptable to most Sunroc facilities. Development, implementation, and maintenance of this Storm water Management Plan will provide Sunroc with the tools to reduce pollutants contained in storm water at the facility.

The primary goals of the SWMP are to:

¹ A “point source” discharge is a flow of water or effluent that enters a stream or river from a particular identifiable location, rather than “non-point source” discharge, such as overland flow, which comes from several locations, such as runoff from an agricultural field or pasture.

- Identify potential sources of pollutants that affect storm water at the site;
- Describe the practices that will be implemented to prevent or control the release of pollutants in storm water;
- Evaluate the plan's effectiveness in reducing the pollutant levels in storm water.
- Train employees on effective storm water management

2.1 Facility Contacts

A list of facility contacts along with emergency reporting procedures can be found in **Appendix A** section of the document.

2.2 Facility Maps

Figures Section contains maps specific to this facility which show: location, size, operations, and runoff environment.

3.0 POLLUTANT SOURCES

3.1 Inventory of Materials

Materials used by the facility that have the potential to be present in storm water runoff are listed in the following table. This table includes information regarding material type, chemical and physical description, and the specific regulated storm water pollutants associated with each material.

Trade Name Material	Chemical/Physical Description	Storm Water Pollutants
Limestone, marl, chalk	White solid	Calcium carbonate, turbidity
Lime	White to slightly yellowish solid	Calcium Oxide
Clay, sand, shale	Solid	Silicon, suspended solids, turbidity
Bauxite, iron ore, recycled metals	Solid	Aluminum, iron, tricalcium aluminate, tetracalcium aluminoferrite
Silicates	Fine powder	Dicalcium and tricalcium silicates
Gypsum (calcium and sulfur based mineral)	White solid	Calcium sulfate
Waste fuel (motor oil, spent solvents, printing inks, paint residues, cleaning fluids, scrap tires)	Various colored liquids, pastes, and solids, petroleum hydrocarbons	Mineral oil, petroleum distillates
Workability agents, superplasticizers	Solid or aqueous solutions	Sulfonated melamine-formaldehyde, sulfonated naphthalene, formaldehyde

Air-entraining admixtures	Liquid	Alkyl benzene sulfonates, methyl ester-derived cocamide diethanolamine
Admixtures	Free flowing granules, gases, solids, liquids	Calcium chloride, ethanol amine, diethanolamine
Wastewater recovered from truck cleaning	Water	Oil & grease, solids, hydrochloric acid
Gasoline	Colorless, pale brown or pink petroleum hydrocarbon	Benzene, ethyl benzene, toluene, xylene, MTBE
Diesel Fuel		Nonane, Ethyltoluenes, Naphthalene

3.1.1 Practices used to minimize contact of materials with rainfall and runoff

- Material piles are kept in a compact shape to minimize surface area.
- Materials are stored on flat areas that do not pond, and on areas that drain into the drainage system whenever possible. No materials are stored within a drainage area.

3.1.2 Existing nonstructural controls that reduce pollutants in storm water runoff

- Regular maintenance of machinery and equipment minimizes spills and leaks.
- Quarterly inspections of fluid containers to check for leaks and deteriorations. Any leaks identified during the inspection will be immediately cleaned using a dry absorbent.
- An emergency spill kit with the supplies necessary to clean a fuel spill (a broom, a shovel, sand, saw dust, a 55-gallon drum) is stored in a convenient location near the fueling station area and in the shop so they will be immediately available in the event of a spill.
- A spill prevention plan is implemented as a resource to prevent spills, or in the event of a spill, to aid in the clean-up process. The plan addresses proper procedures and maintenance of the fuel and oil products and equipment, and identifies supplies and equipment for quick spill response.

3.1.3 Structural controls that reduce pollutants and storm water runoff

Structural controls that reduce contaminants in storm water runoff include: oil/water separators, retention ponds, berms/swales, and secondary containment for fuel/oil (see SPCC plans).

3.2 Risk Identification and Summary of Potential Pollutant Sources

3.2.1 Loading and unloading operations

- Sediment can fall from loaders while dump trucks are being loaded with soil or aggregate materials. Minor leaks can drain from equipment used at the loading site.

3.2.2 Outdoor manufacturing/process activities

- *Parking areas:* Employees park their vehicles in the parking lot area. Storm water from this area can be potentially contaminated by leaking fluids from the parked

vehicles. These contaminants may contain mineral oil, petroleum, distillates, benzene, ethyl benzene, toluene, xylene, and MTBE.

- *Fueling areas:* Fueling activities are performed at the fuel storage areas. Storm water from these areas can be potentially contaminated by fluids leaking from the trucks during refueling activities and spills and leaks at the fueling station. These contaminants may contain mineral oil, petroleum distillates, benzene, ethyl benzene, toluene, xylene, and MTBE.
- *Sand and Gravel Truck Loading/Unloading areas:* Trucks unload sand and gravel in the sand and gravel truck unloading area. Storm water from this area can be potentially contaminated by fluids leaking on to the gravel surface from the trucks and by sand and gravel spills. These contaminants may contain mineral oil, benzene, toluene, xylene, MTBE, silicon, dissolved solids, suspended solids, calcium sulfate, tricalcium aluminate, and tetracalcium aluminoferrite.
- *Truck Washout area:* Truck drums and the exterior of trucks are cleaned in the truck washout area. Storm water from this area can be potentially contaminated by waste water from truck cleaning operations and by leaking fluids from trucks. These contaminants may contain mineral oil, benzene, MTBE, silicon, suspended solids, calcium sulfate, calcium oxide, sulfonated melamine-formaldehyde, alkyl benzene sulfonates, and methyl-ester-derived cocamide diethanolamine.

3.2.3 Dust/particle generating activities

- Dust is generated as materials are loaded/unloaded, moved from one stockpile to another, and transferred by conveyer belt. Dust is also generated by vehicles traveling on the unpaved roads between facility operations. All roads and materials are sprayed to control fugitive dust and all activities occur within the perimeter of the facility, so the sediments that may contaminate storm water runoff will remain onsite.

3.2.4 On-site waste disposal practices

- Sources of waste include office waste, employee lunch waste, small lubricant cans and buckets, cloths used for cleaning, etc... Any of these waste sources could become scattered across the site due to wind, inadequate disposal containers or sloppy employee housekeeping. Trash cans are provided and emptied on a regular basis to ensure no storm water is adversely affected.

3.2.5 Miscellaneous liquid sources/activities

- Vehicle maintenance takes place in a concrete floored shop when available. All in-shop oil is stored on spill pallets or within a secondary containment area. To avoid spills, all used oil filters, fuel filters, etc. are drained to drums for recycling prior to disposal; in some shops a lube pit is used during maintenance to catch spills; and dry cleanup methods are employed to minimize the chance that storm water will contact maintenance materials. A spill kit is maintained in case a spill occurs during maintenance activities.

4.0 MEASURES AND CONTROLS

This section discusses the storm water management controls implemented at the facility and describes the management practices selected to address the areas of concern identified in Section 3 of this SWMP.

4.1 Good Housekeeping

Good housekeeping Best Management Practices (BMPs) refers to ongoing or regular practices that ensure that areas of the facility with a potential to contribute pollutants to storm water are kept clean and orderly. The following comprise some of the good housekeeping practices that are routinely followed:

- Litter is controlled through employee awareness, trash receptacle placement, and frequent cleanup, among other controls. New employees are instructed in litter control as part of their initial Sunroc training. Wind blown litter and other debris is periodically cleaned up from the entire facility.
- Servicing of vehicles and mobile equipment is conducted within the main shop area. Used oil is stored in a tank and is then recycled. All other new and used lubricants, liquids and supplies are inventoried and stored in tanks and drums that are within spill containment.
- Fueling takes place in designated areas away from surface water collection areas.
- To reduce the chance of spills during fueling, the equipment operator remains at the fueling point while the tank is being filled. All valves are opened immediately prior to, and closed immediately after, fueling.
- Tanks and drums are refilled and/or re-supplied between once a day and once a week by a contractor. All tanks and drums are secondarily contained.
- A spill kit is maintained on site to absorb any spilled fuel
- A detailed description of preventive and clean-up measures for fuel and oil spills can be found in the SPCC which is kept on site at all times.

4.2 Preventive Maintenance

- Vehicles, equipment, and machinery are kept in good working order so that their likelihood of discharging fluids that could contact storm water is minimized.
- Water systems used in dust control are regularly maintained to avoid small, chronic leaks or larger-volume releases.
- Earthen slopes and retention berms/swales are maintained in order to reduce erosion and storm water transport of their materials as well as continue to serve their intended function.
- The inspection procedures discussed in Section 4.4 ensure that items requiring maintenance are identified. If maintenance is needed, items are repaired as soon as practicable. During the next inspection, special attention is paid to those items in order to verify that maintenance activities were adequately completed.

4.3 Other Controls

All wastes created during operations are removed from the area and disposed of appropriately. No trash or other pollutants will be buried on site. All applicable Federal, State and/or local waste disposal regulations will be complied with.

Any gasoline, diesel fuels, lubricants, and other potential pollutants stored on the property are stored in double-walled tanks. Grease, oil, and lubricants are stored within an enclosed shop and are inventoried on a regular basis.

4.4 Inspections

Once a quarter, material handling and storage areas, drum storage areas, conveyors, hoppers, and stockpile areas are inspected to assure that there are no leaks, fuel or oil deposition areas, or other signs that hydrocarbons are uncontrolled. Storm water control structures and equipment such as berms, sediment control and collection systems, and containment structures are also inspected to ensure continued proper operation. Inspections are conducted quarterly during each of the following periods: January to March, April to June, July to September, and October to December.

A blank inspection report form is located in **Appendix C** and will be completed and signed by the inspector at the time of each inspection. If the inspection report describes deficiencies in pollution control equipment, structures, or procedures, the deficiencies will be corrected as soon as possible following the inspection, and prior to the next anticipated significant storm event. A description of all actions and shall be documented and retained as part of this plan. Sunroc will retain copies of the completed inspection reports (**Appendix D**) for a minimum of three years from the date of inspection.

As stipulated in the SPCC Plan, fuel and oil products, and their containment systems will be inspected in accordance with the SPCC Plan inspection schedule.

4.5 Employee Training

An employee training program will be developed and implemented to educate employees about the requirements contained in these plans and other plans relating to storm water and spill prevention. This education program will include the following:

- Background on the components and goals of storm water pollution prevention
- Hands-on training in spill prevention and response
- BMPs to be used at the facility
- Education on storm water pollution prevention
- Question and answer session
- Other topics considered pertinent during each session

All new employees will be trained within one week of their start date. Additionally, employees will be required to participate in an annual refresher training course. An employee sign-in sheet for the refresher course can be found in **Appendix E** of this document. The training program will be reviewed annually to determine its effectiveness and to make any necessary changes to the program. Training records shall be retained for a minimum of three years.

4.6 Record Keeping and Internal Reporting Procedures

Records described in this plan must be retained on site for a minimum of 3 years, and shall be made available to the state or federal compliance inspection officer upon request. Additionally, employee training records shall also be maintained.

APPENDIX A

FACILITY CONTACTS AND REPORTING PROCEDURES

CONTACT LIST

WAYNE HUMPHRIES, AGGREGATE PRODUCTION MANAGER
525 WEST ARROWHEAD TRAIL ROAD
P.O. BOX 488
SPANISH FORK, UT 84660

OFFICE 801-722-2117
CELL 801-372-7889
EMAIL – WHUMPHRIES@SUNROC.NET

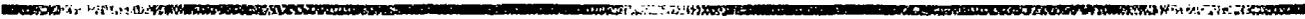
GENE BECK, ROCK PRODUCTS MANAGER
1825 EAST 3860 SOUTH
ST. GEORGE, UTAH 84790

OFFICE 435-673-3503
CELL 435-669-6365
EMAIL – GBECK@SUNROC.NET

REPORTING PROCEDURE - ANY INCIDENCE OF STORM WATER CONTAMINATION OR DISCHARGE OF STORMWATER FROM THE PROPERTY SHOULD BE REPORTED IMMEDIATELY TO ONE OR MORE OF THE ABOVE INDIVIDUALS.

APPENDIX B

FACILITY MAPS



APPENDIX C

INSPECTION REPORT FORMS

Quarterly Visual Inspection Form

Sunroc Corporation

Location:

Inspectors Name:

Inspection Date:

Inspection Time:

Directions: Perform a walk-through of the facility when rain is not falling and check YES or NO for each item. Record any corrective actions that are needed. Review the SWPPP and complete Section 4. Describe the corrective actions that were taken in Section 5.

1. Housekeeping	Yes	No	Corrective Actions/Maintenance Required
- Litter is picked up?			
- Trash receptacles no overflowing?			
2. Materials and Equipment	Yes	No	Corrective Actions/Maintenance Required
- Aggregate material storage piles located within the batch plant?			
- Process and mobile equipment positioned within the batch plant?			
- Obsolete equipment located in proper storage area?			
- Any signs of leakage from process, mobile, and obsolete equipment?			
- Preventive maintenance has been performed on mobile equipment?			
- Silos and storage tanks no leaking?			
- Secondary containment area in good condition (i.e., no cracks, no signs of leaks)?			
3. General	Yes	No	Corrective Actions/Maintenance Required
- Any evidence of erosion/			
- Perimeter berms in good condition?			
- Roads and parking lots in good condition (i.e., no erosion or ruts)?			
- Any new problem areas or potential pollutant sources?			
4. SWPPP Review			
- If deficiencies were noted above, are changes to the SWPPP required?	YES	NO	
- If yes, describe the revisions that were made:	_____		

5. Corrective Actions Taken			
- For the corrective Actions/Maintenance Required that were identified above, enter the action that was taken and the date:	_____		

APPENDIX D

COMPLETED INSPECTION REPORT FORMS

APPENDIX E

EMPLOYEE TRAINING RECORDS

SWMP Training Sign-In Sheet

Date

Employee Name

Employee Signature

Vertical line separating Date and Employee Name columns

Vertical line separating Employee Name and Employee Signature columns

Horizontal line separating header from body