



State of Utah

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Department of
Environmental Quality

Kimberly D. Shelley
Executive Director

DIVISION OF AIR QUALITY
Bryce C. Bird
Director

DAQE-AN106880005-22

August 12, 2022

Nakeasha Scovill
Staker Parson Companies
89 West 13490 South
Draper, UT 84020
nakeasha.scovill@stakerparson.com

Dear Ms. Scovill:

Re: Approval Order:
Administrative Amendment to Approval Order DAQE-AN0688002-03 for a 10-Year Review and
Permit Updates
Project Number: N106880005

The attached Approval Order (AO) is issued pursuant to the Division of Air Quality conducting a 10-year administrative review of this source and its respective AO. Staker Parson Companies must comply with the requirements of this AO, all applicable state requirements (R307), and Federal Standards.

The project engineer for this action is **Christine Bodell**, who can be contacted at (385) 290-2690 or cbodell@utah.gov. Future correspondence on this AO should include the engineer's name as well as the DAQE number shown on the upper right-hand corner of this letter. No public comments were received on this action.

Sincerely,

Bryce C. Bird
Director

BCB:CB:jg

STATE OF UTAH
Department of Environmental Quality
Division of Air Quality

APPROVAL ORDER
DAQE-AN106880005-22
Administrative Amendment to Approval Order
DAQE-AN0688002-03 for a 10-Year Review and Permit Updates

Prepared By
Christine Bodell, Engineer
(385) 290-2690
cbodell@utah.gov

Issued to
Staker & Parson Companies - Francis Aggregate Pit

Issued On
August 12, 2022

Issued By

A handwritten signature in black ink, appearing to read 'Bryce C. Bird', is positioned above the printed name and title.

Bryce C. Bird
Director
Division of Air Quality

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GENERAL INFORMATION

CONTACT/LOCATION INFORMATION

Owner Name

Staker Parson Companies

Source Name

Staker & Parson Companies - Francis Aggregate Pit

Mailing Address

89 West 13490 South
Draper, UT 84020

Physical Address

Remote 0.4 miles South of Utah Highway 32 on
Lower River Road, Francis
Francis, UT 84036

Source Contact

Name Nakeasha Scovill
Phone (801) 871-6704
Email nakeasha.scovill@stakerparson.com

UTM Coordinates

475,511 m Easting
4,495,106 m Northing
Datum NAD83
UTM Zone 12

SIC code 1442 (Construction Sand & Gravel)

SOURCE INFORMATION

General Description

Staker Parson Companies (Staker) owns and operates an aggregate pit located in Summit County near the town of Francis. The pit contains crushers, screens, conveyors, and a wash plant. The pit produces up to 960,000 tons of processed aggregate material per year and is limited to 2,400 hours of operations per year. The pit is only permitted to operate between the hours of 7:00 am and 6:00 pm (November 2nd thru March 31st) and 7:00 am to 10:00 pm (April 1st thru November 1st).

NSR Classification

10-Year Review

Source Classification

Located in Attainment Area
Summit County
Airs Source Size: B

Applicable Federal Standards

NSPS (Part 60), A: General Provisions
NSPS (Part 60), OOO: Standards of Performance for Nonmetallic Mineral Processing Plants
MACT (Part 63), A: General Provisions
MACT (Part 63), ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Project Description

This administrative amendment to Approval Order DAQE-AN0688002-03, dated October 7, 2003. The DAQ is conducting a 10-year review and is updating the language and format of AO DAQE-AN0688002-03. There are no changes to the operations taking place at the Staker Francis Aggregate Pit.

SUMMARY OF EMISSIONS

The emissions listed below are an estimate of the total potential emissions from the source. Some rounding of emissions is possible.

Criteria Pollutant	Change (TPY)	Total (TPY)
CO ₂ Equivalent		5088.00
Carbon Monoxide		2.82
Nitrogen Oxides		29.41
Particulate Matter - PM ₁₀		3.51
Particulate Matter - PM _{2.5}		3.51
Sulfur Dioxide		1.86
Volatile Organic Compounds		0.56

Hazardous Air Pollutant	Change (lbs/yr)	Total (lbs/yr)
Generic HAPs (CAS #GHAPS)		100
	Change (TPY)	Total (TPY)
Total HAPs		0.05

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 Director or Director'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. [R307-401-8]

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 Director 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 UAC R307-107. General Requirements: Breakdowns. [R307-107]
I.7	The owner/operator shall comply with UAC R307-150 Series. Emission Inventories. [R307-150]

SECTION II: PERMITTED EQUIPMENT

II.A THE APPROVED EQUIPMENT

II.A.1	Francis Aggregate Pit
II.A.2	One (1) Jaw Crusher Capacity: 500 TPH
II.A.3	Two (2) Cone Crushers Capacity: 200 TPH each
II.A.4	Three (3) Screens Capacities: two (2) 300 TPH each; one (1) 400 TPH
II.A.5	One (1) Wash Plant Capacity: 500 TPH
II.A.6	One (1) Feeder-Trap Capacity: 1,200 TPH
II.A.7	One (1) Generator Rating: 1,000 HP Fuel: #1, #2, or a combination of #1 and #2 fuel oil

SECTION II: SPECIAL PROVISIONS

II.B REQUIREMENTS AND LIMITATIONS

II.B.1.a	<p>The owner/operator shall not allow visible emissions from the following emission points to exceed the following values:</p> <ul style="list-style-type: none"> A. All crushers - 10% opacity B. All screens- 10% opacity C. All storage piles- 10% opacity D. Wash plant - 0% opacity E. All conveyor transfer points - 10% opacity F. All diesel engines - 20% opacity G. Conveyor drop points - 15% opacity H. Fugitive dust - 20% opacity I. All other points - 20% opacity. <p>[R307-401-8]</p>
II.B.1.a.1	<p>Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9. [R307-401-8]</p>
II.B.1.a.2	<p>Visible emissions determinations for traffic sources 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. Six points, distributed along the length of the haul road or in the operational area, shall be chosen by the Director or the Director's representative. An opacity reading shall be made at each point when a vehicle passes the selected points. Opacity readings shall be measured at a point not less than 1/2 vehicle length behind the vehicle and not less than 1/2 the height of the vehicle. The accumulated six readings shall be averaged for the compliance value. [R307-401-8]</p>
II.B.1.b	<p>The owner/operator shall not produce more than 960,000 tons of crushed and screened gravel products per rolling 12-month period. [R307-401-8]</p>
II.B.1.b.1	<p>The owner/operator shall:</p> <ul style="list-style-type: none"> A. Determine production with scale house records or vendor receipts B. Record production on a daily basis C. Use the production data to calculate a new rolling 12-month total by the 20th day of each month using data from the previous 12 months D. Keep the production records for all periods the plant is in operation. <p>[R307-401-8]</p>

II.B.1.c	The owner/operator shall not conduct any crushing or screening activities for more than 2,400 hours per rolling 12-month period. [R307-401-8]
II.B.1.c.1	<p>The owner/operator shall:</p> <p>A. Determine hours of operation by supervisor monitoring and maintaining an operations log</p> <p>B. Use the hours of operation to calculate a new rolling 12-month total by the 20th day of each month using data from the previous 12 months.</p> <p>[R307-401-8]</p>
II.B.1.d	The owner/operator shall not conduct any crushing or screening activities before 7:00 am or after 6:00 pm from November 2nd thru March 31st and before 7:00 am or after 10:00 am from April 1st thru November 1st. [R307-401-8]
II.B.2	Roads and Fugitive Dust Requirements
II.B.2.a	The owner/operator shall comply with all applicable requirements of R307-205 for Fugitive Emission and Fugitive Dust sources on site. [R307-401-8]
II.B.2.b	The speed of mobile equipment (trucks, front end loaders, etc.) on the haul road shall not exceed 15 miles per hour (15 mph). The haul road speed shall be posted. [R307-401-8]
II.B.2.c	The owner/operator shall pave the haul road on site. The paved haul road shall include the complete length from the loading/pit area to the public roadways, including all entrances and exits leading to the operation. [R307-401-8]
II.B.2.d	The owner/operator shall sweep and flush with water all the paved haul roads on site to prevent visible emissions from exceeding the opacity limits listed in this AO. [R307-401-8]
II.B.2.d.1	Records of cleaning paved roads shall be made available to the Director or Director's representative upon request. [R307-401-8]
II.B.2.e	<p>The owner/operator shall install water sprays or chemical dust suppression sprays on each crusher, screen and enclosed* conveyor transfer point on site to control emissions. Water sprays shall operate as necessary to prevent visible emissions from exceeding the opacity limits listed in this AO.</p> <p>*Enclosed is defined as having three (3) or more sides. [R307-401-8]</p>
II.B.2.e.1	The owner/operator shall keep the water usage records for all periods of operation. [R307-401-8]
II.B.2.f	The area occupied by the storage piles, not including washed material, chipped material or sewer rock (3/4" or larger without fines), generated by this operation shall not exceed 1.5 acres. [R307-401-8]
II.B.2.g	The area disturbed by this operation which has not been stabilized to prevent wind erosion shall not exceed 4.0 acres. [R307-401-8]
II.B.2.h	Exposed areas shall be stabilized with gravel coating. Unstabilized areas shall be watered to minimize generation of fugitive dust as dry conditions warrant. [R307-401-8]

II.B.3	Fuel Requirements
II.B.3.a	The owner/operator shall use only natural gas, liquefied petroleum gas, #1, #2 or a combination of #1 and #2 diesel fuel as a primary fuel in on-site equipment. [R307-401-8]
II.B.3.b	The owner/operator shall only combust diesel fuel that meets the definition of ultra-low sulfur diesel (ULSD), which has a sulfur content of 15 ppm or less. [40 CFR 60 Subpart ZZZZ, R307-401-8]
II.B.3.b.1	To demonstrate compliance with the ULSD fuel requirement, the owner/operator shall maintain records of diesel fuel purchase invoices or obtain certification of sulfur content from the diesel fuel supplier. The diesel fuel purchase invoices shall indicate that the diesel fuel meets the ULSD requirements. [R307-401-8]

PERMIT HISTORY

This Approval Order shall supersede (if a modification) or will be based on the following documents:

Supersedes

AO DAQE-AN0688002-03 dated October 7, 2003

ACRONYMS

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

40 CFR	Title 40 of the Code of Federal Regulations
AO	Approval Order
BACT	Best Available Control Technology
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CDS	Classification Data System (used by Environmental Protection Agency to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CMS	Continuous monitoring system
CO	Carbon monoxide
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide Equivalent - Title 40 of the Code of Federal Regulations Part 98, Subpart A, Table A-1
COM	Continuous opacity monitor
DAQ/UDAQ	Division of Air Quality
DAQE	This is a document tracking code for internal Division of Air Quality use
EPA	Environmental Protection Agency
FDCP	Fugitive dust control plan
GHG	Greenhouse Gas(es) - Title 40 of the Code of Federal Regulations 52.21 (b)(49)(i)
GWP	Global Warming Potential - Title 40 of the Code of Federal Regulations Part 86.1818-12(a)
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
LB/YR	Pounds per year
MACT	Maximum Achievable Control Technology
MMBTU	Million British Thermal Units
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
PTE	Potential to Emit
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
TPY	Tons per year
UAC	Utah Administrative Code
VOC	Volatile organic compounds