

Emergency Discharges / Spills should be reported via the 24-Hour Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to s. 292.11 Wis. Stats. Non-emergency hazardous substance discharges may be reported by telefaxing or e-mailing a completed report to the Department, or calling or visiting a Department office in person. If you choose to notify the Department by telefax or by email, you should use this form to be sure that all necessary information is included. However, use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating the reporting requirements of ch. 292 Wis. Stats., shall be no less than \$10 nor more than \$5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 – 19.39, Wis. Stats.).

Confirmatory laboratory data should be included with this form, to assist the DNR in processing this Hazardous Substance Release Notification.

Complete this form. **TYPE or PRINT LEGIBLY.** NOTIFY appropriate DNR region (see next page) **IMMEDIATELY** upon discovery of a potential release from (**check one**):

- Underground Petroleum Storage Tank System (additional information may be required for Item 6 below)
- Aboveground Petroleum Storage Tank System
- Dry Cleaner Facility
- Other - Describe: Former Secondary Settling Pond and Treated Wastewater Outfalls

ATTN DNR: **R & R Program Associate**

Date DNR Notified:

1. Discharge Reported By

Name Brian Odom	Firm Aerostar SES LLC	Phone Number (include area code) 478-397-4906
Mailing Address 820 S. University Blvd, Mobile, AL 36609		Email bodom@specproenv.com

2. Site Information

Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence/vacant property.

Former Secondary Settling Pond and Treated Wastewater Outfalls AFFF Area 6

Location: Include street address, not PO Box. If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60.

On the north side of the Volk CRTC runway, approximately 1,000 feet north of Taxiway C.

Municipality: (City, Village, Township) Specify municipality in which the site is located, not mailing address/city.

Volk Field Combat Readiness Training Center

County Juneau	Legal Description: ¼ of ¼ Section 15/16, Town 17 N, Range 02 <input checked="" type="radio"/> E <input type="radio"/> W	WTM: X W090.25285 Y N43.94244
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3. Responsible Party (RP) and/or RP Representative

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

United States Air Force, Wisconsin Air National Guard

A local governmental unit claiming an exemption from state Spill Law and Solid Waste Management responsibilities for the discharge being reported, per Wis. Stat. §§ 292.11(9)(e) and 292.23, should: 1) check this box; 2) review [DNR publication RR-055](#); and 3) provide documentation to DNR that demonstrates compliance with the statutory requirements of the liability exemptions. Local governmental units may also request a fee-based liability clarification letter from DNR by using [DNR Form 4400-237](#).

Contact Person Name (if different) Daniel Gonnering	Phone Number 608-427-1441	Email daniel.d.gonnering.nfg@mail.mil	
Mailing Address Civil Engineering Environmental, Volk CRTC	City Camp Douglas	State WI	ZIP Code 54618

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Contact Person Name (if different)	Phone Number	Email	
Mailing Address	City	State	ZIP Code

(continued)

Notification For Hazardous Substance Discharge (Non-Emergency Only)

Form 4400-225 (R 06/17)

4. Hazardous Substance Information

Identify hazardous substance discharged (check all that apply):

- | | | |
|---|---|---|
| <input type="checkbox"/> VOCs
<input type="checkbox"/> PCE
<input type="checkbox"/> TCE
<input type="checkbox"/> Other Chlorinated
<input type="checkbox"/> Diesel
<input type="checkbox"/> Fuel Oil
<input type="checkbox"/> Gasoline
<input type="checkbox"/> Hydraulic Oil
<input type="checkbox"/> Jet Fuel | (VOCs continued)
<input type="checkbox"/> Mineral Oil
<input type="checkbox"/> Waste Oil
<input type="checkbox"/> Petroleum-Unknown Type
<input type="checkbox"/> PAHs
<input type="checkbox"/> PCBs
<input type="checkbox"/> Cyanide
<input type="checkbox"/> Leachate
<input type="checkbox"/> Manure | <input type="checkbox"/> Metals
<input type="checkbox"/> Arsenic
<input type="checkbox"/> Chromium
<input type="checkbox"/> Lead
<input type="checkbox"/> Other: _____
<input type="checkbox"/> Pesticides: _____
<input type="checkbox"/> Fertilizer: _____
<input type="checkbox"/> RCRA Hazardous Waste: _____
<input checked="" type="checkbox"/> Other: <u>Aqueous Film Forming Foam</u>
<input type="checkbox"/> Unknown |
|---|---|---|

5. Impacts to the Environment Information

Enter "K" for known/confirmed or "P" for potential for all that apply.

- | | | |
|---|--|---|
| <input type="checkbox"/> Air Contamination
<input type="checkbox"/> Co-mingled (Petroleum & Non-Petroleum)
<input type="checkbox"/> Contamination in Fractured Bedrock
<input type="checkbox"/> Contamination Within 1 Meter of Bedrock
<input type="checkbox"/> Contaminated Private Well
<input type="checkbox"/> Contaminated Public Well
<input type="checkbox"/> Contamination in Right of Way | <input type="checkbox"/> Fire Explosion Threat
<input type="checkbox"/> Free Product
<input checked="" type="checkbox"/> Groundwater Contamination
<input type="checkbox"/> Off-Site Contamination
<input type="checkbox"/> Sanitary Sewer Contamination
<input type="checkbox"/> Storm Sewer Contamination
<input checked="" type="checkbox"/> Sediment Contamination
Other (specify): _____ | <input checked="" type="checkbox"/> Soil Contamination
<input type="checkbox"/> Soil Gas Contamination
<input type="checkbox"/> Sub-slab Vapor Contamination
<input checked="" type="checkbox"/> Surface Water Contamination
<input type="checkbox"/> Within 100 ft of Private Well
<input type="checkbox"/> Within 1000 ft of Public Well |
|---|--|---|

Contamination was discovered as a result of:

- | | | |
|--|---|--|
| <input type="checkbox"/> Tank closure assessment | <input checked="" type="checkbox"/> Site assessment | <input type="checkbox"/> Other - Describe: _____ |
| Date <input type="text"/> | Date <input type="text" value="08/29/2016"/> | Date <input type="text"/> |

Lab results: Lab results will be faxed upon receipt Lab results are attached

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

The pond no longer receives wastewater, so no additional releases are occurring.

6. Federal Energy Act Requirements (Section 9002(d) of the Solid Waste Disposal Act (SWDA))

	Source	Cause
For all confirmed releases from USTs occurring after 9/30/2007 please provide the following information: <input checked="" type="checkbox"/> Does not apply.	<input type="checkbox"/> Tank <input type="checkbox"/> Piping <input type="checkbox"/> Dispenser <input type="checkbox"/> Submersible Turbine Pump <input type="checkbox"/> Delivery Problem <input type="checkbox"/> Other (specify): _____	<input type="checkbox"/> Spill <input type="checkbox"/> Overfill <input type="checkbox"/> Corrosion <input type="checkbox"/> Physical or Mechanical Damage <input type="checkbox"/> Installation Problem <input type="checkbox"/> Other (does not fit any of above) <input type="checkbox"/> Unknown

Contact information to report non-emergency releases in DNR's five regions are as follows:

- Northeast Region (FAX: 920-662-5413); Attention -- R&R Program Associate:** DNRRRNER@wisconsin.gov
 Brown, Calumet, Door, Fond du Lac (**except City of Waupun - see South Central Region**), Green Lake, Kewaunee, Manitowoc, Marinette, Marquette, Menominee, Oconto, Outagamie, Shawano, Sheboygan, Waupaca, Waushara, Winnebago counties
- Northern Region (FAX: 715-623-6773); Attention -- R&R Program Associate:** DNRRRNOR@wisconsin.gov
 Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence, Iron, Langlade, Lincoln, Oneida, Polk, Price, Rusk, Sawyer, Taylor, Vilas, Washburn counties
- South Central Region (FAX: 608-273-5610); Attention -- R&R Program Associate:** DNRRRSCR@wisconsin.gov
 Columbia, Dane, Dodge, Fond du Lac (**City of Waupun only**), Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk, Walworth counties
- Southeast Region (FAX: 414-263-8550); Attention -- R&R Program Associate:** DNRRRSER@wisconsin.gov
 Kenosha, Milwaukee, Ozaukee, Racine, Washington, Waukesha counties

Notification For Hazardous Substance Discharge (Non-Emergency Only)

Form 4400-225 (R 06/17)

West Central Region (FAX: 715-839-6076); Attention – R&R Program Associate: DNRRRWCR@wisconsin.gov

Adams, Buffalo, Chippewa, Clark, Crawford, Dunn, Eau Claire, Jackson, Juneau, LaCrosse, Marathon, Monroe, Pepin, Pierce, Portage, St. Croix, Trempealeau, Vernon, Wood counties

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF WATER

Maxxam ID		DAI226				DAI227			
Sampling Date		2016/09/04 13:20				2016/09/04 11:30			
COC Number		n/a				n/a			
	UNITS	VLKFD01-002-GW-020	RDL	MDL	QC Batch	VLKFD01-003-GW-020	RDL	MDL	QC Batch
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ng/L	95 J (1) J	200	44	4658142	8.7 U (2) U	40	8.7	4658142
8:2 Fluorotelomer sulfonate	ng/L	50 U (1) U	200	50	4658142	9.9 U (2) U	40	9.9	4658142
Perfluorobutane Sulfonate (PFBS)	ng/L	240 (1)	100	14	4658142	170 (2)	20	2.7	4658142
Perfluorobutanoic acid	ng/L	1600 (1)	100	21	4658142	85 (2)	20	4.1	4658142
Perfluorodecane Sulfonate	ng/L	19 U (1) U	100	19	4658142	3.8 U (2) U	20	3.8	4658142
Perfluorodecanoic Acid (PFDA)	ng/L	12 U (1) U	100	12	4658142	2.4 U (2) U	20	2.4	4658142
Perfluorododecanoic Acid (PFDoA)	ng/L	32 U (1) U	100	32	4658142	6.3 U (2) U	20	6.3	4658142
Perfluoroheptanoic Acid (PFHpA)	ng/L	130 (1)	100	20	4658142	54 (2)	20	3.9	4658142
Perfluorohexane Sulfonate (PFHxS)	ng/L	9700	800	160	4654168	5500	800	160	4654168
Perfluorohexanoic Acid (PFHxA)	ng/L	1800	800	170	4654168	670 (2)	20	4.2	4658142
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	2700	800	200	4654168	610 (2)	20	3.9	4658142
Perfluorononanoic Acid (PFNA)	ng/L	22 J (1) J	100	17	4658142	11 J (2) J	20	3.3	4658142
Perfluorooctane Sulfonamide (PFOSA)	ng/L	30 U (1) U 10x	200	30	4658142	5.9 U (2) U 10x	40	5.9	4658142
Perfluorooctane Sulfonate (PFOS)	ng/L	20000	800	140	4654168	4200	800	140	4654168
Perfluoropentanoic Acid (PFPeA)	ng/L	240 (1)	100	23	4658142	120 (2)	20	4.6	4658142
Perfluorotetradecanoic Acid	ng/L	31 U (1) U 10x	100	31	4658142	6.1 U (2) U	20	6.1	4658142
Perfluorotridecanoic Acid	ng/L	30 U (1) U 10x	100	30	4658142	6.0 U (2) U	20	6.0	4658142
Perfluoroundecanoic Acid (PFUnA)	ng/L	25 U (1) U	100	25	4658142	5.0 U (2) U	20	5.0	4658142
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	112	N/A	N/A	4654168	118	N/A	N/A	4654168
13C4-Perfluorooctanoic acid	%	116	N/A	N/A	4654168	75	N/A	N/A	4658142
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Due to high concentration of the target analyte, sample required 50x dilution. Detection limit was adjusted accordingly. (2) Due to high concentration of the target analyte, sample required 10x dilution. Detection limit was adjusted accordingly.									

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF WATER

Maxxam ID		DAI228			DAI229				
Sampling Date		2016/09/04 11:28			2016/09/04 17:25				
COC Number		n/a			n/a				
	UNITS	VLKFD-RS-04	RDL	MDL	VLKFD03-001-GW-015	RDL	MDL	QC Batch	
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ng/L	0.87 U	4.0	0.87	1.1 J	4.0	0.87	4659003	
8:2 Fluorotelomer sulfonate	ng/L	0.99 U	4.0	0.99	0.99 U	4.0	0.99	4659003	
Perfluorobutane Sulfonate (PFBS)	ng/L	0.27 U	2.0	0.27	30	2.0	0.27	4659003	
Perfluorobutanoic acid	ng/L	0.41 U (1)	20	0.41	21 (1)	20	0.41	4659003	
Perfluorodecane Sulfonate	ng/L	0.77 J	2.0	0.38	0.38 U	2.0	0.38	4659003	
Perfluorodecanoic Acid (PFDA)	ng/L	0.24 U	2.0	0.24	0.87 J	2.0	0.24	4659003	
Perfluorododecanoic Acid (PFDoA)	ng/L	0.63 U	2.0	0.63	0.63 U	2.0	0.63	4659003	
Perfluoroheptanoic Acid (PFHpA)	ng/L	0.39 U	2.0	0.39	27	2.0	0.39	4659003	
Perfluoroheptane Sulfonate (PFHxS)	ng/L	0.73 J	2.0	0.40	320 (2)	20	4.0	4659003	
Perfluoroheptanoic Acid (PFHxA)	ng/L	0.42 U	2.0	0.42	36	2.0	0.42	4659003	
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	0.39 U	2.0	0.39	18	2.0	0.39	4659003	
Perfluorononanoic Acid (PFNA)	ng/L	0.33 U	2.0	0.33	2.4	2.0	0.33	4659003	
Perfluorooctane Sulfonamide (PFOSA)	ng/L	1.6 J	4.0	0.59	0.59 U	4.0	0.59	4659003	
Perfluorooctane Sulfonate (PFOS)	ng/L	8.0	2.0	0.30	9.0	2.0	0.30	4659003	
Perfluoropentanoic Acid (PFPeA)	ng/L	0.46 U	2.0	0.46	25	2.0	0.46	4659003	
Perfluorotetradecanoic Acid	ng/L	0.61 U	2.0	0.61	0.61 U	2.0	0.61	4659003	
Perfluorotridecanoic Acid	ng/L	0.60 U	2.0	0.60	0.60 U	2.0	0.60	4659003	
Perfluoroundecanoic Acid (PFUnA)	ng/L	0.50 U	2.0	0.50	0.50 U	2.0	0.50	4659003	
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	83	N/A	N/A	85	N/A	N/A	4659003	
13C4-Perfluorooctanoic acid	%	74	N/A	N/A	85	N/A	N/A	4659003	
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Due to matrix interference, sample required 10x dilution. Detection limit was adjusted accordingly. (2) Due to high concentration of the target analyte, sample required 10x dilution. Detection limit was adjusted accordingly.									

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF WATER

Maxxam ID		DAI230	DAI231	DAI238			
Sampling Date		2016/09/04 15:40	2016/09/04 18:10	2016/09/05 12:10			
COC Number		n/a	n/a	n/a			
	UNITS	VLKFD02-003-GW-015	VLKFD03-002-GW-012	VLKFD04-004-SW-001	RDL	MDL	QC Batch

Miscellaneous Parameters

6:2 Fluorotelomer sulfonate	ng/L	0.87 U <i>u</i>	0.96 J <i>J</i>	0.87 U <i>u</i>	4.0	0.87	4659003
8:2 Fluorotelomer sulfonate	ng/L	0.99 U <i>u</i>	0.99 U <i>u</i>	0.99 U <i>u</i>	4.0	0.99	4659003
Perfluorobutane Sulfonate (PFBS)	ng/L	0.81 J <i>J</i>	76	5.3 <i>J 17</i>	2.0	0.27	4659003
Perfluorobutanoic acid	ng/L	7.1 J (1) <i>J</i>	53 (1)	0.41 U (1) <i>u</i>	20	0.41	4659003
Perfluorodecane Sulfonate	ng/L	0.38 U <i>u</i>	0.38 U <i>u</i>	0.38 U <i>u</i>	2.0	0.38	4659003
Perfluorodecanoic Acid (PFDA)	ng/L	0.24 U <i>u</i>	0.24 U <i>u</i>	0.24 U <i>u</i>	2.0	0.24	4659003
Perfluorododecanoic Acid (PFDoA)	ng/L	0.63 U <i>u</i>	0.63 U <i>u</i>	0.63 U <i>U 10a</i>	2.0	0.63	4659003
Perfluoroheptanoic Acid (PFHpA)	ng/L	0.63 J <i>J</i>	8.6	10 <i>J 17</i>	2.0	0.39	4659003
Perfluorohexane Sulfonate (PFHxS)	ng/L	1.8 J <i>JB6C</i>	74	34 <i>J 17, 8a</i>	2.0	0.40	4659003
Perfluorohexanoic Acid (PFHxA)	ng/L	0.42 U <i>u</i>	69	17 <i>J 17, 8a</i>	2.0	0.42	4659003
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	0.72 J <i>J</i>	7.6	14 <i>J 8a</i>	2.0	0.39	4659003
Perfluorononanoic Acid (PFNA)	ng/L	0.33 U <i>u</i>	1.2 J <i>J</i>	3.2 <i>J 17</i>	2.0	0.33	4659003
Perfluorooctane Sulfonamide (PFOSA)	ng/L	33	0.59 U <i>u</i>	0.59 U <i>U 10a</i>	4.0	0.59	4659003
Perfluorooctane Sulfonate (PFOS)	ng/L	6.9 <i>B6C</i>	14 <i>B6C</i>	15 <i>B6C</i>	2.0	0.30	4659003
Perfluoropentanoic Acid (PFPeA)	ng/L	1.1 J <i>J</i>	84	18	2.0	0.46	4659003
Perfluorotetradecanoic Acid	ng/L	0.61 U <i>U 10a</i>	0.61 U <i>U 10a</i>	0.61 U <i>U 10a</i>	2.0	0.61	4659003
Perfluorotridecanoic Acid	ng/L	0.60 U <i>U 10a</i>	0.60 U <i>U 10a</i>	0.60 U <i>U 10a</i>	2.0	0.60	4659003
Perfluoroundecanoic Acid (PFUnA)	ng/L	0.50 U <i>u</i>	0.50 U <i>u</i>	0.50 U <i>U 10a</i>	2.0	0.50	4659003

Surrogate Recovery (%)

13C4-Perfluorooctanesulfonate	%	86	71	88	N/A	N/A	4659003
13C4-Perfluorooctanoic acid	%	95	70	75	N/A	N/A	4659003

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) Due to matrix interference, sample required 10x dilution. Detection limit was adjusted accordingly.

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF WATER

Maxxam ID		DAI240			DAI241			DAI244					
Sampling Date		2016/09/02 11:12			2016/09/02 17:30			2016/09/02 11:40					
COC Number		n/a			n/a			n/a					
	UNITS	VLKFD-RS-03	RDL	MDL	VLKFD06-004-SW-001	RDL	MDL	VLKFD-SB-01	RDL	MDL	QC Batch		
Miscellaneous Parameters													
6:2 Fluorotelomer sulfonate	ng/L	0.87 U	4.0	0.87	0.87 U	4.0	0.87	0.87 U	4.0	0.87	4659003		
8:2 Fluorotelomer sulfonate	ng/L	0.99 U	4.0	0.99	0.99 U	4.0	0.99	0.99 U	4.0	0.99	4659003		
Perfluorobutane Sulfonate (PFBS)	ng/L	0.27 U	2.0	0.27	10	2.0	0.27	1.4 J	2.0	0.27	4659003		
Perfluorobutanoic acid	ng/L	0.41 U (1)	2.0	0.41	18 J (1)	2.0	0.41	9.9 J (1)	2.0	0.41	4659003		
Perfluorodecane Sulfonate	ng/L	0.38 U	2.0	0.38	2.2	2.0	0.38	0.38 U	2.0	0.38	4659003		
Perfluorodecanoic Acid (PFDA)	ng/L	0.24 U	2.0	0.24	3.9 J 7a	2.0	0.24	0.24 U	2.0	0.24	4659003		
Perfluorododecanoic Acid (PFDoA)	ng/L	0.63 U	2.0	0.63	0.63 U 7a	2.0	0.63	0.63 U	2.0	0.63	4659003		
Perfluoroheptanoic Acid (PFHpA)	ng/L	0.39 U	2.0	0.39	13 J 7a	2.0	0.39	1.2 J	2.0	0.39	4659003		
Perfluorohexane Sulfonate (PFHxS)	ng/L	0.40 U	2.0	0.40	160 (2)	2.0	4.0	14	2.0	0.40	4659003		
Perfluorohexanoic Acid (PFHxA)	ng/L	0.42 U	2.0	0.42	27 J 7a	2.0	0.42	2.5	2.0	0.42	4659003		
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	0.39 U	2.0	0.39	22 J 7a	2.0	0.39	0.39 U	2.0	0.39	4659003		
Perfluorononanoic Acid (PFNA)	ng/L	0.33 U	2.0	0.33	16 J 7a	2.0	0.33	0.33 U	2.0	0.33	4659003		
Perfluorooctane Sulfonamide (PFOSA)	ng/L	0.59 U	4.0	0.59	0.74 J 10a	4.0	0.59	0.59 U	4.0	0.59	4659003		
Perfluorooctane Sulfonate (PFOS)	ng/L	0.68 J	2.0	0.30	280 (2)	2.0	3.0	0.64 J	2.0	0.30	4659003		
Perfluoropentanoic Acid (PFPeA)	ng/L	0.63 J	2.0	0.46	16 J 7a	2.0	0.46	1.4 J	2.0	0.46	4659003		
Perfluorotetradecanoic Acid	ng/L	0.61 U	2.0	0.61	0.61 U 7a	2.0	0.61	0.61 U	2.0	0.61	4659003		
Perfluorotridecanoic Acid	ng/L	0.60 U	2.0	0.60	0.60 U 7a	2.0	0.60	0.60 U	2.0	0.60	4659003		
Perfluoroundecanoic Acid (PFUnA)	ng/L	0.50 U	2.0	0.50	0.52 J 7a	2.0	0.50	0.50 U	2.0	0.50	4659003		
Surrogate Recovery (%)													
13C4-Perfluorooctanesulfonate	%	89	N/A	N/A	88	N/A	N/A	83	N/A	N/A	4659003		
13C4-Perfluorooctanoic acid	%	75	N/A	N/A	63	N/A	N/A	83	N/A	N/A	4659003		
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Due to matrix interference, sample required 10x dilution. Detection limit was adjusted accordingly. (2) Due to high concentration of the target analyte, sample required 10x dilution. Detection limit was adjusted accordingly.													

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF WATER

Maxxam ID		DAI245	DAI246			
Sampling Date		2016/09/04 16:20	2016/09/04 14:50			
COC Number		n/a	n/a			
	UNITS	VLKFD02-001-GW-015	VLKFD02-002-GW-025	RDL	MDL	QC Batch
Miscellaneous Parameters						
6:2 Fluorotelomer sulfonate	ng/L	0.87 U <i>u</i>	33 <i>J 10a</i>	4.0	0.87	4660101
8:2 Fluorotelomer sulfonate	ng/L	0.99 U <i>u</i>	5.7 <i>J 10a</i>	4.0	0.99	4660101
Perfluorobutane Sulfonate (PFBS)	ng/L	15	36	2.0	0.27	4660101
Perfluorobutanoic acid	ng/L	13	13	2.0	0.41	4660101
Perfluorodecane Sulfonate	ng/L	0.38 U <i>u</i>	0.38 U <i>u</i>	2.0	0.38	4660101
Perfluorodecanoic Acid (PFDA)	ng/L	0.98 J <i>J</i>	0.43 J <i>J</i>	2.0	0.24	4660101
Perfluorododecanoic Acid (PFDoA)	ng/L	0.63 U <i>u</i>	0.63 U <i>u</i>	2.0	0.63	4660101
Perfluoroheptanoic Acid (PFHpA)	ng/L	19	6.0	2.0	0.39	4660101
Perfluorohexane Sulfonate (PFHxS)	ng/L	140	-160	20	4.0	4660101
Perfluorohexanoic Acid (PFHxA)	ng/L	37	21	2.0	0.42	4660101
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	7.9	7.6	2.0	0.39	4660101
Perfluorononanoic Acid (PFNA)	ng/L	2.9	1.7 J <i>J</i>	2.0	0.33	4660101
Perfluorooctane Sulfonamide (PFOSA)	ng/L	0.59 U <i>u</i>	0.62 <i>J B 6C</i>	4.0	0.59	4660101
Perfluorooctane Sulfonate (PFOS)	ng/L	85	21 <i>B 6C</i>	2.0	0.30	4660101
Perfluoropentanoic Acid (PFPeA)	ng/L	26	19	2.0	0.46	4660101
Perfluorotetradecanoic Acid	ng/L	0.61 U <i>U J 10a</i>	0.61 U <i>u</i>	2.0	0.61	4660101
Perfluorotridecanoic Acid	ng/L	0.60 U <i>U J 10a</i>	0.60 U <i>u</i>	2.0	0.60	4660101
Perfluoroundecanoic Acid (PFUnA)	ng/L	0.50 U <i>u</i>	0.50 U <i>u</i>	2.0	0.50	4660101
Surrogate Recovery (%)						
13C4-Perfluorooctanesulfonate	%	91	97	N/A	N/A	4660101
13C4-Perfluorooctanoic acid	%	86	95	N/A	N/A	4660101
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable						

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF WATER

Maxxam ID		DAI247					DAI248				
Sampling Date		2016/09/04 09:55					2016/09/04 09:55				
COC Number		n/a					n/a				
	UNITS	VLKFD01-001-GW-030	RDL	MDL	QC Batch	VLKFD01-001-GW-930	RDL	MDL	QC Batch		
Miscellaneous Parameters											
6:2 Fluorotelomer sulfonate	ng/L	35 J (1) J	80	17	4662074	46 J (2) J	80	17	4658142		
8:2 Fluorotelomer sulfonate	ng/L	20 U (1) u	80	20	4662074	20 U (2) u	80	20	4658142		
Perfluorobutane Sulfonate (PFBS)	ng/L	380 (1)	40	5.4	4662074	460 (2)	40	5.4	4658142		
Perfluorobutanoic acid	ng/L	120 (1)	40	8.2	4662074	130 (2)	40	8.2	4658142		
Perfluorodecane Sulfonate	ng/L	7.6 U (1) u	40	7.6	4662074	7.6 U (2) u	40	7.6	4658142		
Perfluorodecanoic Acid (PFDA)	ng/L	15 J (1) J	40	4.8	4662074	13 J (2) J	40	4.8	4658142		
Perfluorododecanoic Acid (PFDoA)	ng/L	13 U (1) u	40	13	4662074	13 U (2) u	40	13	4658142		
Perfluoroheptanoic Acid (PFHpA)	ng/L	210 (1)	40	7.8	4662074	220 (2)	40	7.8	4658142		
Perfluorohexane Sulfonate (PFHxS)	ng/L	11000 (3)	800	160	4654218	11000	800	160	4654168		
Perfluorohexanoic Acid (PFHxA)	ng/L	2700 (3)	800	170	4654218	2700	800	170	4654168		
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	5700 (3)	800	200	4654218	5800	800	200	4654168		
Perfluorononanoic Acid (PFNA)	ng/L	29 J (1) J	40	6.6	4662074	31 J (2) J	40	6.6	4658142		
Perfluorooctane Sulfonamide (PFOSA)	ng/L	570 (1) J17	80	12	4662074	860 J17	800	230	4654168		
Perfluorooctane Sulfonate (PFOS)	ng/L	4900	800	140	4654218	5200	800	140	4654168		
Perfluoropentanoic Acid (PFPeA)	ng/L	210 (1)	40	9.2	4662074	230 (2)	40	9.2	4658142		
Perfluorotetradecanoic Acid	ng/L	12 U (1) u	40	12	4662074	12 U (2) u	40	12	4658142		
Perfluorotridecanoic Acid	ng/L	12 U (1) u	40	12	4662074	12 U (2) u	40	12	4658142		
Perfluoroundecanoic Acid (PFUnA)	ng/L	10 U (1) u	40	10	4662074	10 U (2) u	40	10	4658142		
Surrogate Recovery (%)											
13C4-Perfluorooctanesulfonate	%	117	N/A	N/A	4654218	118	N/A	N/A	4654168		
13C4-Perfluorooctanoic acid	%	110	N/A	N/A	4654218	126	N/A	N/A	4654168		
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Due to high concentrations of the target analytes, sample required 20x dilution. Detection limit was adjusted accordingly. (2) Due to high concentration of the target analyte, sample required 20x dilution. Detection limit was adjusted accordingly. (3) Due to high concentration of the target analyte, sample required high level analysis. Detection limit was adjusted accordingly.											

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF WATER

Maxxam ID		DAI249			DAI251			
Sampling Date		2016/09/05 17:15			2016/09/05 14:00			
COC Number		n/a			n/a			
	UNITS	VLKFD06-003-SW-001	RDL	MDL	VLKFD06-001-GW-015	RDL	MDL	QC Batch
Miscellaneous Parameters								
6:2 Fluorotelomer sulfonate	ng/L	0.87 U <i>u</i>	4.0	0.87	7.8 <i>J 10a</i>	4.0	0.87	4660101
8:2 Fluorotelomer sulfonate	ng/L	0.99 U <i>u</i>	4.0	0.99	0.99 U <i>u</i>	4.0	0.99	4660101
Perfluorobutane Sulfonate (PFBS)	ng/L	6.8	2.0	0.27	40	2.0	0.27	4660101
Perfluorobutanoic acid	ng/L	8.3	2.0	0.41	6.6	2.0	0.41	4660101
Perfluorodecane Sulfonate	ng/L	0.93 J <i>J</i>	2.0	0.38	0.38 U <i>u</i>	2.0	0.38	4660101
Perfluorodecanoic Acid (PFDA)	ng/L	3.7	2.0	0.24	0.24 U <i>u</i>	2.0	0.24	4660101
Perfluorododecanoic Acid (PFDoA)	ng/L	0.63 U <i>u</i>	2.0	0.63	0.63 U <i>u</i>	2.0	0.63	4660101
Perfluoroheptanoic Acid (PFHpA)	ng/L	10	2.0	0.39	5.4	2.0	0.39	4660101
Perfluorohexane Sulfonate (PFHxS)	ng/L	98	20	4.0	37	2.0	0.40	4660101
Perfluorohexanoic Acid (PFHxA)	ng/L	18	2.0	0.42	53	2.0	0.42	4660101
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	16	2.0	0.39	17	2.0	0.39	4660101
Perfluorononanoic Acid (PFNA)	ng/L	6.6	2.0	0.33	1.4 J <i>J</i>	2.0	0.33	4660101
Perfluorooctane Sulfonamide (PFOSA)	ng/L	0.59 U <i>u</i>	4.0	0.59	1.3 J <i>J B6c</i>	4.0	0.59	4660101
Perfluorooctane Sulfonate (PFOS)	ng/L	130	20	3.0	8.4 <i>B6c</i>	2.0	0.30	4660101
Perfluoropentanoic Acid (PFPeA)	ng/L	13	2.0	0.46	14	2.0	0.46	4660101
Perfluorotetradecanoic Acid	ng/L	0.61 U <i>u 10a</i>	2.0	0.61	0.61 U <i>u 10a</i>	2.0	0.61	4660101
Perfluorotridecanoic Acid	ng/L	0.60 U <i>u 10a</i>	2.0	0.60	0.60 U <i>u 10a</i>	2.0	0.60	4660101
Perfluoroundecanoic Acid (PFUnA)	ng/L	0.50 U <i>u</i>	2.0	0.50	0.50 U <i>u</i>	2.0	0.50	4660101
Surrogate Recovery (%)								
13C4-Perfluorooctanesulfonate	%	103	N/A	N/A	84	N/A	N/A	4660101
13C4-Perfluorooctanoic acid	%	97	N/A	N/A	84	N/A	N/A	4660101
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable								

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF WATER

Maxxam ID		DAI252			DAI253				
Sampling Date		2016/09/05 16:00			2016/09/05 15:10				
COC Number		n/a			n/a				
	UNITS	VLKFD06-002-GW-018	RDL	MDL	VLKFD05-001-GW-015	RDL	MDL	QC Batch	
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ng/L	60 J 10a	4.0	0.87	0.87 U u	4.0	0.87	4662074	
8:2 Fluorotelomer sulfonate	ng/L	0.99 U u	4.0	0.99	0.99 U u	4.0	0.99	4662074	
Perfluorobutane Sulfonate (PFBS)	ng/L	52	2.0	0.27	1.1 J J	2.0	0.27	4662074	
Perfluorobutanoic acid	ng/L	55 J 10a	2.0	0.41	7.0	2.0	0.41	4662074	
Perfluorodecane Sulfonate	ng/L	0.38 U u	2.0	0.38	0.38 U u	2.0	0.38	4662074	
Perfluorodecanoic Acid (PFDA)	ng/L	0.24 U u	2.0	0.24	0.37 J J	2.0	0.24	4662074	
Perfluorododecanoic Acid (PFDoA)	ng/L	0.63 U u	2.0	0.63	0.63 U u	2.0	0.63	4662074	
Perfluoroheptanoic Acid (PFHpA)	ng/L	44	2.0	0.39	1.7 J J	2.0	0.39	4662074	
Perfluorohexane Sulfonate (PFHxS)	ng/L	200 (1)	20	4.0	11	2.0	0.40	4662074	
Perfluorohexanoic Acid (PFHxA)	ng/L	170 (1)	20	4.2	2.4	2.0	0.42	4662074	
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	110 (1)	20	3.9	1.7 J J	2.0	0.39	4662074	
Perfluorononanoic Acid (PFNA)	ng/L	6.6	2.0	0.33	0.68 J J	2.0	0.33	4662074	
Perfluorooctane Sulfonamide (PFOSA)	ng/L	0.59 U u 10a	4.0	0.59	0.59 U u 10a	4.0	0.59	4662074	
Perfluorooctane Sulfonate (PFOS)	ng/L	86	2.0	0.30	30 B 6c	2.0	0.30	4662074	
Perfluoropentanoic Acid (PFPeA)	ng/L	90	2.0	0.46	3.3	2.0	0.46	4662074	
Perfluorotetradecanoic Acid	ng/L	0.61 U u 10a	2.0	0.61	0.61 U u 10a	2.0	0.61	4662074	
Perfluorotridecanoic Acid	ng/L	0.60 U u 10a	2.0	0.60	0.60 U u 10a	2.0	0.60	4662074	
Perfluoroundecanoic Acid (PFUnA)	ng/L	0.50 U u	2.0	0.50	0.50 U u	2.0	0.50	4662074	
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	109	N/A	N/A	109	N/A	N/A	4662074	
13C4-Perfluorooctanoic acid	%	89	N/A	N/A	99	N/A	N/A	4662074	
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Due to high concentration of the target analyte, sample required 10x dilution. Detection limit was adjusted accordingly.									

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF WATER

Maxxam ID		DAI254					DAI255				
Sampling Date		2016/09/05 16:45					2016/09/05 10:20				
COC Number		n/a					n/a				
	UNITS	VLKFD05-002-GW-015	RDL	MDL	QC Batch	VLKFD04-001-GW-015	RDL	MDL	QC Batch		
Miscellaneous Parameters											
6:2 Fluorotelomer sulfonate	ng/L	17 U (1) <i>u</i>	80	17	4662074	5.6 <i>J Na</i>	4.0	0.87	4662074		
8:2 Fluorotelomer sulfonate	ng/L	20 U (1) <i>u</i>	80	20	4662074	0.99 U <i>u</i>	4.0	0.99	4662074		
Perfluorobutane Sulfonate (PFBS)	ng/L	2800 (2)	800	230	4654218	9.3	2.0	0.27	4662074		
Perfluorobutanoic acid	ng/L	170 (1)	40	8.2	4662074	10	2.0	0.41	4662074		
Perfluorodecane Sulfonate	ng/L	7.6 U (1) <i>u</i>	40	7.6	4662074	0.38 U <i>u</i>	2.0	0.38	4662074		
Perfluorodecanoic Acid (PFDA)	ng/L	4.8 U (1) <i>u</i>	40	4.8	4662074	0.24 U <i>u</i>	2.0	0.24	4662074		
Perfluorododecanoic Acid (PFDoA)	ng/L	13 U (1) <i>u</i>	40	13	4662074	0.63 U <i>u</i>	2.0	0.63	4662074		
Perfluoroheptanoic Acid (PFHpA)	ng/L	470 (1)	40	7.8	4662074	11	2.0	0.39	4662074		
Perfluorohexane Sulfonate (PFHxS)	ng/L	13000 (2)	800	160	4654218	87	2.0	0.40	4662074		
Perfluorohexanoic Acid (PFHxA)	ng/L	3800 (2)	800	170	4654218	22	2.0	0.42	4662074		
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	1000 (2)	800	200	4654218	10	2.0	0.39	4662074		
Perfluorononanoic Acid (PFNA)	ng/L	6.6 U (1) <i>u</i>	40	6.6	4662074	0.90 J <i>J</i>	2.0	0.33	4662074		
Perfluorooctane Sulfonamide (PFOSA)	ng/L	12 U (1) <i>u</i>	80	12	4662074	0.59 U <i>u</i>	4.0	0.59	4662074		
Perfluorooctane Sulfonate (PFOS)	ng/L	150 (1)	40	6.0	4662074	10 <i>B 6c</i>	2.0	0.30	4662074		
Perfluoropentanoic Acid (PFPeA)	ng/L	340 (1)	40	9.2	4662074	16	2.0	0.46	4662074		
Perfluorotetradecanoic Acid	ng/L	12 U (1) <i>u</i>	40	12	4662074	0.61 U <i>u</i>	2.0	0.61	4662074		
Perfluorotridecanoic Acid	ng/L	12 U (1) <i>u</i>	40	12	4662074	0.60 U <i>u</i>	2.0	0.60	4662074		
Perfluoroundecanoic Acid (PFUnA)	ng/L	10 U (1) <i>u</i>	40	10	4662074	0.50 U <i>u</i>	2.0	0.50	4662074		
Surrogate Recovery (%)											
13C4-Perfluorooctanesulfonate	%	122	N/A	N/A	4662074	104	N/A	N/A	4662074		
13C4-Perfluorooctanoic acid	%	95	N/A	N/A	4654218	100	N/A	N/A	4662074		
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Due to high concentrations of the target analytes, sample required 20x dilution. Detection limit was adjusted accordingly. (2) Due to high concentration of the target analyte, sample required high level analysis. Detection limit was adjusted accordingly.											

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF WATER

Maxxam ID		DAI256			DAI257				
Sampling Date		2016/09/05 11:55			2016/09/05 11:55				
COC Number		n/a			n/a				
	UNITS	VLKFD04-002-GW-015	RDL	MDL	VLKFD04-003-GW-014	RDL	MDL	QC Batch	
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ng/L	0.87 U <i>u</i>	4.0	0.87	10 <i>J 7a 10a</i>	4.0	0.87	4662074	
8:2 Fluorotelomer sulfonate	ng/L	0.99 U <i>u</i>	4.0	0.99	0.99 U <i>u</i>	4.0	0.99	4662074	
Perfluorobutane Sulfonate (PFBS)	ng/L	0.76 J <i>J</i>	2.0	0.27	15 <i>J 7a</i>	2.0	0.27	4662074	
Perfluorobutanoic acid	ng/L	7.6	2.0	0.41	17	2.0	0.41	4662074	
Perfluorodecane Sulfonate	ng/L	0.38 U <i>u</i>	2.0	0.38	0.38 U <i>u</i>	2.0	0.38	4662074	
Perfluorodecanoic Acid (PFDA)	ng/L	0.30 J <i>J</i>	2.0	0.24	0.24 U <i>u</i>	2.0	0.24	4662074	
Perfluorododecanoic Acid (PFDoA)	ng/L	0.63 U <i>u</i>	2.0	0.63	0.63 U <i>u</i>	2.0	0.63	4662074	
Perfluoroheptanoic Acid (PFHpA)	ng/L	1.1 J <i>J</i>	2.0	0.39	16	2.0	0.39	4662074	
Perfluorohexane Sulfonate (PFHxS)	ng/L	6.4	2.0	0.40	110 (1)	20	4.0	4662074	
Perfluorohexanoic Acid (PFHxA)	ng/L	1.4 J <i>J</i>	2.0	0.42	34	2.0	0.42	4662074	
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	1.6 J <i>J</i>	2.0	0.39	13	2.0	0.39	4662074	
Perfluorononanoic Acid (PFNA)	ng/L	0.63 J <i>J</i>	2.0	0.33	0.74 J <i>J</i>	2.0	0.33	4662074	
Perfluorooctane Sulfonamide (PFOSA)	ng/L	0.60 J <i>JB 6c</i>	4.0	0.59	0.59 U <i>UJ 10a</i>	4.0	0.59	4662074	
Perfluorooctane Sulfonate (PFOS)	ng/L	3.8 <i>B 6c</i>	2.0	0.30	18 <i>B 6c</i>	2.0	0.30	4662074	
Perfluoropentanoic Acid (PFPeA)	ng/L	2.2	2.0	0.46	32	2.0	0.46	4662074	
Perfluorotetradecanoic Acid	ng/L	0.61 U <i>UJ 10a</i>	2.0	0.61	0.61 U <i>UJ 10a</i>	2.0	0.61	4662074	
Perfluorotridecanoic Acid	ng/L	0.60 U <i>UJ 10a</i>	2.0	0.60	0.60 U <i>UJ 10a</i>	2.0	0.60	4662074	
Perfluoroundecanoic Acid (PFUnA)	ng/L	0.50 U <i>u</i>	2.0	0.50	0.50 U <i>u</i>	2.0	0.50	4662074	
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	102	N/A	N/A	135 Q (2)	N/A	N/A	4662074	
13C4-Perfluorooctanoic acid	%	91	N/A	N/A	130	N/A	N/A	4662074	
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Due to high concentration of the target analyte, sample required 10x dilution. Detection limit was adjusted accordingly. (2) Surrogate recovery was above the defined upper control limit (UCL). Laboratory spiked water resulted in satisfactory recovery of the surrogate. When considered together, these QC data suggest that matrix interferences may be biasing the data high. Because quantitation is performed using isotope dilution techniques, any apparent gains of the native compound that may occur during any of the sample preparation, extraction, cleanup or determinative steps will be mirrored by a similar gain of the labeled standard, and as such can be accounted for and corrected. Therefore, the quantification of these target compounds is not affected by the high surrogate recovery.									

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF WATER

Maxxam ID		DAI258	DAI260	DAI261			
Sampling Date		2016/09/05 12:10	2016/09/05 18:00	2016/09/05 18:00			
COC Number		n/a	n/a	n/a			
	UNITS	VLKFD04-004-SW-901	VLKFD03-003-GW-018	VLKFD03-003-GW-918	RDL	MDL	QC Batch

Miscellaneous Parameters

6:2 Fluorotelomer sulfonate	ng/L	0.87 U <i>u</i>	1.2 J <i>J 7a</i>	1.3 J <i>J 7a</i>	4.0	0.87	4662074
8:2 Fluorotelomer sulfonate	ng/L	0.99 U <i>u</i>	0.99 U <i>u</i>	0.99 U <i>u</i>	4.0	0.99	4662074
Perfluorobutane Sulfonate (PFBS)	ng/L	3.0 <i>J 17a</i>	8.3 <i>J 7a</i>	8.4 <i>J 7a</i>	2.0	0.27	4662074
Perfluorobutanoic acid	ng/L	0.41 U <i>U 10a</i>	10 <i>U 10a</i>	10 <i>J 7a, 10a</i>	2.0	0.41	4662074
Perfluorodecane Sulfonate	ng/L	0.38 U <i>u</i>	0.38 U <i>u</i>	0.38 U <i>u</i>	2.0	0.38	4662074
Perfluorodecanoic Acid (PFDA)	ng/L	0.24 U <i>u</i>	0.24 U <i>u</i>	0.24 U <i>u</i>	2.0	0.24	4662074
Perfluorododecanoic Acid (PFDoA)	ng/L	0.63 U <i>u</i>	0.63 U <i>u</i>	0.63 U <i>u</i>	2.0	0.63	4662074
Perfluoroheptanoic Acid (PFHpA)	ng/L	6.9 <i>J 17</i>	12	13 <i>J 7a</i>	2.0	0.39	4662074
Perfluorohexane Sulfonate (PFHxS)	ng/L	25 <i>J 17, 7a</i>	63 <i>J 7a</i>	74	2.0	0.40	4662074
Perfluorohexanoic Acid (PFHxA)	ng/L	12 <i>J 17</i>	22	23	2.0	0.42	4662074
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	11	13	15	2.0	0.39	4662074
Perfluorononanoic Acid (PFNA)	ng/L	2.1 <i>J 17</i>	1.3 J <i>J</i>	1.1 J <i>J</i>	2.0	0.33	4662074
Perfluorooctane Sulfonamide (PFOSA)	ng/L	0.59 U <i>U 10a</i>	0.59 U <i>U 10a</i>	0.59 U <i>U 10a</i>	4.0	0.59	4662074
Perfluorooctane Sulfonate (PFOS)	ng/L	8.7 <i>J 17, 7a</i>	14 <i>B 6c</i>	12 <i>B 6c</i>	2.0	0.30	4662074
Perfluoropentanoic Acid (PFPeA)	ng/L	15	21	21 <i>J 7a</i>	2.0	0.46	4662074
Perfluorotetradecanoic Acid	ng/L	0.61 U <i>u</i>	0.61 U <i>U 10a</i>	0.61 U <i>U 10a</i>	2.0	0.61	4662074
Perfluorotridecanoic Acid	ng/L	0.60 U <i>u</i>	0.60 U <i>U 10a</i>	0.60 U <i>U 10a</i>	2.0	0.60	4662074
Perfluoroundecanoic Acid (PFUnA)	ng/L	0.50 U <i>u</i>	0.50 U <i>u</i>	0.50 U <i>u</i>	2.0	0.50	4662074

Surrogate Recovery (%)

13C4-Perfluorooctanesulfonate	%	237 Q (1)	137 Q (1)	163 Q (1)	N/A	N/A	4662074
13C4-Perfluorooctanoic acid	%	121	119	143 Q (1)	N/A	N/A	4662074

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) Surrogate recovery was above the defined upper control limit (UCL). Laboratory spiked water resulted in satisfactory recovery of the surrogate. When considered together, these QC data suggest that matrix interferences may be biasing the data high. Because quantitation is performed using isotope dilution techniques, any apparent gains of the native compound that may occur during any of the sample preparation, extraction, cleanup or determinative steps will be mirrored by a similar gain of the labeled standard, and as such can be accounted for and corrected. Therefore, the quantification of these target compounds is not affected by the high surrogate recovery.

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF WATER

Maxxam ID		DAI265			
Sampling Date		2016/09/05 17:10			
COC Number		n/a			
	UNITS	VLKFD-RS-05	RDL	MDL	QC Batch
Miscellaneous Parameters					
6:2 Fluorotelomer sulfonate	ng/L	0.87 U <i>U</i>	4.0	0.87	4662074
8:2 Fluorotelomer sulfonate	ng/L	0.99 U	4.0	0.99	4662074
Perfluorobutane Sulfonate (PFBS)	ng/L	0.27 U	2.0	0.27	4662074
Perfluorobutanoic acid	ng/L	0.41 U	2.0	0.41	4662074
Perfluorodecane Sulfonate	ng/L	0.38 U	2.0	0.38	4662074
Perfluorodecanoic Acid (PFDA)	ng/L	0.24 U	2.0	0.24	4662074
Perfluorododecanoic Acid (PFDoA)	ng/L	0.63 U	2.0	0.63	4662074
Perfluoroheptanoic Acid (PFHpA)	ng/L	0.39 U	2.0	0.39	4662074
Perfluorohexane Sulfonate (PFHxS)	ng/L	0.40 U	2.0	0.40	4662074
Perfluorohexanoic Acid (PFHxA)	ng/L	0.42 U	2.0	0.42	4662074
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	0.39 U	2.0	0.39	4662074
Perfluorononanoic Acid (PFNA)	ng/L	0.33 U	2.0	0.33	4662074
Perfluorooctane Sulfonamide (PFOSA)	ng/L	0.59 U	4.0	0.59	4662074
Perfluorooctane Sulfonate (PFOS)	ng/L	0.51 J <i>J</i>	2.0	0.30	4662074
Perfluoropentanoic Acid (PFPeA)	ng/L	0.46 U <i>U</i>	2.0	0.46	4662074
Perfluorotetradecanoic Acid	ng/L	0.61 U	2.0	0.61	4662074
Perfluorotridecanoic Acid	ng/L	0.60 U	2.0	0.60	4662074
Perfluoroundecanoic Acid (PFUnA)	ng/L	0.50 U <i>U</i>	2.0	0.50	4662074
Surrogate Recovery (%)					
13C4-Perfluorooctanesulfonate	%	131 Q <i>Q</i>	N/A	N/A	4662074
13C4-Perfluorooctanoic acid	%	132 Q (1)	N/A	N/A	4662074
<p>RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Surrogate recovery was above the defined upper control limit (UCL). Laboratory spiked water resulted in satisfactory recovery of the surrogate. When considered together, these QC data suggest that matrix interferences may be biasing the data high. Because quantitation is performed using isotope dilution techniques, any apparent gains of the native compound that may occur during any of the sample preparation, extraction, cleanup or determinative steps will be mirrored by a similar gain of the labeled standard, and as such can be accounted for and corrected. Therefore, the quantification of these target compounds is not affected by the high surrogate recovery.</p>					

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DAI212				DAI213			
Sampling Date		2016/09/04 08:30				2016/09/04 12:20			
COC Number		n/a				n/a			
	UNITS	VLKFD05-001-SS-001	RDL	MDL	QC Batch	VLKFD05-001-SO-002	RDL	MDL	QC Batch
Inorganics									
Moisture	%	13	1.0	0.50	4654155	9.0	1.0	0.50	4654013
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ug/kg	0.25 U <i>u</i>	1.1	0.25	4661418	0.21 U <i>u</i>	0.84	0.21	4656570
8:2 Fluorotelomer sulfonate	ug/kg	0.21 U <i>u</i>	1.1	0.21	4661418	0.18 U <i>u</i>	0.84	0.18	4656570
Perfluorobutane Sulfonate (PFBS)	ug/kg	0.25 U <i>u</i>	1.1	0.25	4661418	0.21 U <i>u</i>	0.84	0.21	4656570
Perfluorobutanoic acid	ug/kg	0.23 J <i>J</i>	1.1	0.23	4661418	0.19 U <i>u</i>	0.84	0.19	4656570
Perfluorodecane Sulfonate	ug/kg	0.20 U <i>u</i>	1.1	0.20	4661418	0.17 U <i>u</i>	0.84	0.17	4656570
Perfluorodecanoic Acid (PFDA)	ug/kg	0.28 U <i>u</i>	1.1	0.28	4661418	0.24 U <i>u</i>	0.84	0.24	4656570
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.24 U <i>u</i>	1.1	0.24	4661418	0.20 U <i>u</i>	0.84	0.20	4656570
Perfluoroheptanoic Acid (PFHpA)	ug/kg	0.18 U <i>u</i>	1.1	0.18	4661418	0.15 U <i>u</i>	0.84	0.15	4656570
Perfluorohexane Sulfonate (PFHxS)	ug/kg	0.41 J <i>J</i>	1.1	0.19	4661418	0.16 U <i>u</i>	0.84	0.16	4656570
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.21 U <i>u</i>	1.1	0.21	4661418	0.18 U <i>u</i>	0.84	0.18	4656570
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	0.12 U <i>u</i>	1.1	0.12	4661418	0.10 U <i>u</i>	0.84	0.10	4656570
Perfluorononanoic Acid (PFNA)	ug/kg	0.14 U <i>u</i>	1.1	0.14	4661418	0.12 U <i>u</i>	0.84	0.12	4656570
Perfluorooctane Sulfonamide (PFOSA)	ug/kg	0.17 U <i>u</i>	1.1	0.17	4661418	0.14 U <i>u</i>	0.84	0.14	4656570
Perfluorooctane Sulfonate (PFOS)	ug/kg	5.1	1.1	0.16	4661418	1.3	0.84	0.13	4656570
Perfluoropentanoic Acid (PFPeA)	ug/kg	0.21 U <i>u</i>	1.1	0.21	4661418	0.18 U <i>u</i>	0.84	0.18	4656570
Perfluorotetradecanoic Acid	ug/kg	0.27 J <i>J</i>	1.1	0.22	4661418	0.18 U <i>u</i>	0.84	0.18	4656570
Perfluorotridecanoic Acid	ug/kg	0.25 U <i>u</i>	1.1	0.25	4661418	0.21 U <i>u</i>	0.84	0.21	4656570
Perfluoroundecanoic Acid (PFUnA)	ug/kg	0.26 U <i>u</i>	1.1	0.26	4661418	0.22 U <i>u</i>	0.84	0.22	4656570
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	104 Q	N/A	N/A	4661418	89	N/A	N/A	4656570
13C4-Perfluorooctanoic acid	%	97 Q	N/A	N/A	4661418	78	N/A	N/A	4656570
13C8-Perfluorooctanesulfonamide	%	86	N/A	N/A	4661418	73	N/A	N/A	4656570
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DAI214				DAI215			
Sampling Date		2016/09/04 09:10				2016/09/04 09:40			
COC Number		n/a				n/a			
	UNITS	VLKFD05-002-SS-001	RDL	MDL	QC Batch	VLKFD05-002-SO-002	RDL	MDL	QC Batch
Inorganics									
Moisture	%	5.6	1.0	0.50	4654155	15	1.0	0.50	4654013
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ug/kg	0.21 U u	0.85	0.21	4661418	0.25 U u	0.98	0.25	4656570
8:2 Fluorotelomer sulfonate	ug/kg	0.18 U u	0.85	0.18	4661418	0.21 U ↓	0.98	0.21	4656570
Perfluorobutane Sulfonate (PFBS)	ug/kg	0.21 U u	0.85	0.21	4661418	0.25 U ↓	0.98	0.25	4656570
Perfluorobutanoic acid	ug/kg	0.20 U u	0.85	0.20	4661418	0.23 U ↓	0.98	0.23	4656570
Perfluorodecane Sulfonate	ug/kg	0.31 J J	0.85	0.17	4661418	0.20 U ↓	0.98	0.20	4656570
Perfluorodecanoic Acid (PFDA)	ug/kg	0.24 U u	0.85	0.24	4661418	0.27 U ↓	0.98	0.27	4656570
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.20 U u	0.85	0.20	4661418	0.24 U ↓	0.98	0.24	4656570
Perfluoroheptanoic Acid (PFHpA)	ug/kg	0.15 U u	0.85	0.15	4661418	0.18 U ↓	0.98	0.18	4656570
Perfluorohexane Sulfonate (PFHxS)	ug/kg	0.44 J J	0.85	0.16	4661418	0.23 J J	0.98	0.19	4656570
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.18 U u	0.85	0.18	4661418	0.21 U u	0.98	0.21	4656570
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	0.10 U u	0.85	0.10	4661418	0.12 U u	0.98	0.12	4656570
Perfluorononanoic Acid (PFNA)	ug/kg	0.12 U u	0.85	0.12	4661418	0.14 U u	0.98	0.14	4656570
Perfluorooctane Sulfonamide (PFOSA)	ug/kg	0.14 U u	0.85	0.14	4661418	0.17 U u	0.98	0.17	4656570
Perfluorooctane Sulfonate (PFOS)	ug/kg	3.5	0.85	0.14	4661418	7.7	0.98	0.16	4656570
Perfluoropentanoic Acid (PFPeA)	ug/kg	0.18 U u	0.85	0.18	4661418	0.21 U u	0.98	0.21	4656570
Perfluorotetradecanoic Acid	ug/kg	0.19 U u	0.85	0.19	4661418	0.22 U ↓	0.98	0.22	4656570
Perfluorotridecanoic Acid	ug/kg	0.21 U u	0.85	0.21	4661418	0.25 U ↓	0.98	0.25	4656570
Perfluoroundecanoic Acid (PFUnA)	ug/kg	0.22 U u	0.85	0.22	4661418	0.25 U ↓	0.98	0.25	4656570
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	99 Q	N/A	N/A	4661418	80	N/A	N/A	4656570
13C4-Perfluorooctanoic acid	%	105 Q	N/A	N/A	4661418	83	N/A	N/A	4656570
13C8-Perfluorooctanesulfonamide	%	91	N/A	N/A	4661418	72	N/A	N/A	4656570
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DAI215			DAI216			
Sampling Date		2016/09/04 09:40			2016/09/04 13:00			
COC Number		n/a			n/a			
	UNITS	VLKFD05-002-SO-002 Lab-Dup	RDL	MDL	VLKFD05-003-SS-001	RDL	MDL	QC Batch
Inorganics								
Moisture	%	15	1.0	0.50	29	1.0	0.50	4654013
Miscellaneous Parameters								
6:2 Fluorotelomer sulfonate	ug/kg	N/A	0.98	0.25	0.28 U <i>u</i>	1.1	0.28	4656570
8:2 Fluorotelomer sulfonate	ug/kg	N/A	0.98	0.21	0.23 U <i>u</i>	1.1	0.23	4656570
Perfluorobutane Sulfonate (PFBS)	ug/kg	N/A	0.98	0.25	2.7	1.1	0.28	4656570
Perfluorobutanoic acid	ug/kg	N/A	0.98	0.23	1.3	1.1	0.25	4656570
Perfluorodecane Sulfonate	ug/kg	N/A	0.98	0.20	5.4	1.1	0.22	4656570
Perfluorodecanoic Acid (PFDA)	ug/kg	N/A	0.98	0.27	0.31 U <i>y</i>	1.1	0.31	4656570
Perfluorododecanoic Acid (PFDoA)	ug/kg	N/A	0.98	0.24	0.26 U <i>u</i>	1.1	0.26	4656570
Perfluoroheptanoic Acid (PFHpA)	ug/kg	N/A	0.98	0.18	1.2	1.1	0.20	4656570
Perfluorohexane Sulfonate (PFHxS)	ug/kg	N/A	0.98	0.19	74 (1)	11	2.1	4656570
Perfluorohexanoic Acid (PFHxA)	ug/kg	N/A	0.98	0.21	5.7	1.1	0.23	4656570
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	N/A	0.98	0.12	3.8	1.1	0.13	4656570
Perfluorononanoic Acid (PFNA)	ug/kg	N/A	0.98	0.14	0.15 U <i>u</i>	1.1	0.15	4656570
Perfluorooctane Sulfonamide (PFOSA)	ug/kg	N/A	0.98	0.17	1.2 <i>J 7a</i>	1.1	0.19	4656570
Perfluorooctane Sulfonate (PFOS)	ug/kg	N/A	0.98	0.16	220 (1)	11	1.8	4656570
Perfluoropentanoic Acid (PFPeA)	ug/kg	N/A	0.98	0.21	1.4	1.1	0.23	4656570
Perfluorotetradecanoic Acid	ug/kg	N/A	0.98	0.22	0.24 U <i>LS 10a</i>	1.1	0.24	4656570
Perfluorotridecanoic Acid	ug/kg	N/A	0.98	0.25	0.28 U <i>LS 10a</i>	1.1	0.28	4656570
Perfluoroundecanoic Acid (PFUnA)	ug/kg	N/A	0.98	0.25	0.29 U <i>u</i>	1.1	0.29	4656570
Surrogate Recovery (%)								
13C4-Perfluorooctanesulfonate	%	N/A	N/A	N/A	99	N/A	N/A	4656570
13C4-Perfluorooctanoic acid	%	N/A	N/A	N/A	75	N/A	N/A	4656570
13C8-Perfluorooctanesulfonamide	%	N/A	N/A	N/A	60	N/A	N/A	4656570
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Due to high concentration of the target analyte, sample required 10x dilution. Detection limits were adjusted accordingly.								

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DAI217			DAI218				
Sampling Date		2016/09/04 13:10			2016/09/04 10:45				
COC Number		n/a			n/a				
	UNITS	VLKFD05-003-SO-002	RDL	MDL	VLKFD05-004-SS-001	RDL	MDL	QC Batch	
Inorganics									
Moisture	%	83	1.0	0.50	7.9	1.0	0.50	4654013	
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ug/kg	1.2 U <i>u</i>	4.9	1.2	0.23 U <i>u</i>	0.93	0.23	4656570	
8:2 Fluorotelomer sulfonate	ug/kg	1.0 U <i>u</i>	4.9	1.0	0.20 U <i>u</i>	0.93	0.20	4656570	
Perfluorobutane Sulfonate (PFBS)	ug/kg	39	4.9	1.2	0.23 U <i>u</i>	0.93	0.23	4656570	
Perfluorobutanoic acid	ug/kg	6.6	4.9	1.1	0.51 J <i>J</i>	0.93	0.21	4656570	
Perfluorodecane Sulfonate	ug/kg	3.5 J <i>J</i>	4.9	0.98	0.80 J <i>J</i>	0.93	0.19	4656570	
Perfluorodecanoic Acid (PFDA)	ug/kg	1.4 U <i>u</i>	4.9	1.4	0.26 U <i>u</i>	0.93	0.26	4656570	
Perfluorododecanoic Acid (PFDoA)	ug/kg	1.2 U <i>u</i> <i>100</i>	4.9	1.2	0.22 U <i>u</i>	0.93	0.22	4656570	
Perfluoroheptanoic Acid (PFHpA)	ug/kg	18	4.9	0.88	0.17 U <i>u</i>	0.93	0.17	4656570	
Perfluorohexane Sulfonate (PFHxS)	ug/kg	1700 (1)	490	93	0.92 J <i>J</i>	0.93	0.18	4656570	
Perfluorohexanoic Acid (PFHxA)	ug/kg	68	4.9	1.0	0.42 J <i>J</i>	0.93	0.20	4656570	
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	190	4.9	0.59	0.24 J <i>J</i>	0.93	0.11	4656570	
Perfluorononanoic Acid (PFNA)	ug/kg	0.74 J <i>J</i>	4.9	0.69	0.13 U <i>u</i>	0.93	0.13	4656570	
Perfluorooctane Sulfonamide (PFOSA)	ug/kg	0.83 U <i>u</i> <i>100</i> <i>78</i>	4.9	0.83	0.88 J <i>J</i>	0.93	0.16	4656570	
Perfluorooctane Sulfonate (PFOS)	ug/kg	920 (1)	490	78	15	0.93	0.15	4656570	
Perfluoropentanoic Acid (PFPeA)	ug/kg	11	4.9	1.0	0.20 U <i>u</i>	0.93	0.20	4656570	
Perfluorotetradecanoic Acid	ug/kg	110 U (2) <i>u</i>	490	110	0.20 U <i>u</i>	0.93	0.20	4656570	
Perfluorotridecanoic Acid	ug/kg	120 U (2) <i>u</i>	490	120	0.23 U <i>u</i>	0.93	0.23	4656570	
Perfluoroundecanoic Acid (PFUnA)	ug/kg	1.3 U <i>u</i>	4.9	1.3	0.24 U <i>u</i>	0.93	0.24	4656570	
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	103	N/A	N/A	95	N/A	N/A	4656570	
13C4-Perfluorooctanoic acid	%	77	N/A	N/A	87	N/A	N/A	4656570	
13C8-Perfluorooctanesulfonamide	%	47 Q (3)	N/A	N/A	83	N/A	N/A	4656570	
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Due to high concentration of the target analyte, sample required 100x dilution. Detection limits were adjusted accordingly. (2) Due to matrix interference, sample required 100x dilution. Detection limit was adjusted accordingly. (3) Surrogate recovery was below the defined lower control limit (LCL). Laboratory spiked soil resulted in satisfactory recovery of the surrogate. When considered together, these QC data suggest that matrix interferences may be biasing the data low. Because quantitation is performed using isotope dilution techniques, any losses of the native compound that may occur during any of the sample preparation, extraction, cleanup or determinative steps will be mirrored by a similar loss of the labeled standard, and as such can be accounted for and corrected. Therefore, the quantification of these target compounds is not affected by the low surrogate recovery.									

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DAI219			DAI220				
Sampling Date		2016/09/04 10:55			2016/09/04 11:10				
COC Number		n/a			n/a				
	UNITS	VLKFD05-004-SO-003	RDL	MDL	VLKFD05-005-SS-001	RDL	MDL	QC Batch	
Inorganics									
Moisture	%	20	1.0	0.50	22	1.0	0.50	4661418	
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ug/kg	0.32 J J	0.97	0.24	0.28 U U	1.1	0.28	4661418	
8:2 Fluorotelomer sulfonate	ug/kg	0.20 U U	0.97	0.20	0.23 U U	1.1	0.23	4661418	
Perfluorobutane Sulfonate (PFBS)	ug/kg	0.37 J J	0.97	0.24	2.5	1.1	0.28	4661418	
Perfluorobutanoic acid	ug/kg	0.51 J J	0.97	0.22	1.5	1.1	0.25	4661418	
Perfluorodecane Sulfonate	ug/kg	0.19 U U	0.97	0.19	17	1.1	0.22	4661418	
Perfluorodecanoic Acid (PFDA)	ug/kg	0.27 U U	0.97	0.27	0.31 U U	1.1	0.31	4661418	
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.23 U U	0.97	0.23	0.28 J J	1.1	0.26	4661418	
Perfluoroheptanoic Acid (PFHpA)	ug/kg	0.17 U U	0.97	0.17	1.0 J J	1.1	0.20	4661418	
Perfluorohexane Sulfonate (PFHxS)	ug/kg	2.3	0.97	0.18	84 (1)	11	2.1	4661418	
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.20 U U	0.97	0.20	5.0	1.1	0.23	4661418	
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	0.12 U U	0.97	0.12	3.6	1.1	0.13	4661418	
Perfluorononanoic Acid (PFNA)	ug/kg	0.14 U U	0.97	0.14	0.18 J J	1.1	0.15	4661418	
Perfluorooctane Sulfonamide (PFOSA)	ug/kg	0.16 U U	0.97	0.16	40	1.1	0.19	4661418	
Perfluorooctane Sulfonate (PFOS)	ug/kg	0.31 J J	0.97	0.16	680 (2)	110	18	4661418	
Perfluoropentanoic Acid (PFPeA)	ug/kg	0.20 U U	0.97	0.20	1.7	1.1	0.23	4661418	
Perfluorotetradecanoic Acid	ug/kg	0.21 U U	0.97	0.21	0.24 U U	1.1	0.24	4661418	
Perfluorotridecanoic Acid	ug/kg	0.24 U U	0.97	0.24	0.28 U U	1.1	0.28	4661418	
Perfluoroundecanoic Acid (PFUnA)	ug/kg	0.25 U U	0.97	0.25	0.29 U U	1.1	0.29	4661418	
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	77 Q	N/A	N/A	90 Q	N/A	N/A	4661418	
13C4-Perfluorooctanoic acid	%	76 Q	N/A	N/A	87 Q	N/A	N/A	4661418	
13C8-Perfluorooctanesulfonamide	%	63	N/A	N/A	73	N/A	N/A	4661418	
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Due to high concentration of the target parameter, sample required a 10x dilution. Detection limit was adjusted accordingly. (2) Due to high concentration of the target parameter, sample required a 100x dilution. Detection limit was adjusted accordingly.									

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DAI221			DAI222					
Sampling Date		2016/09/02 16:45			2016/09/02 16:50					
COC Number		n/a			n/a					
	UNITS	VLKFD06-001-SS-001	RDL	MDL	VLKFD06-001-SO-002	RDL	MDL	QC Batch		
Inorganics										
Moisture	%	7.7	1.0	0.50	10	1.0	0.50	4654013		
Miscellaneous Parameters										
6:2 Fluorotelomer sulfonate	ug/kg	0.21 U <i>u</i>	0.85	0.21	0.23 U <i>u</i>	0.93	0.23	4656570		
8:2 Fluorotelomer sulfonate	ug/kg	0.18 U <i>u</i>	0.85	0.18	0.20 U	0.93	0.20	4656570		
Perfluorobutane Sulfonate (PFBS)	ug/kg	0.21 U <i>u</i>	0.85	0.21	0.23 U	0.93	0.23	4656570		
Perfluorobutanoic acid	ug/kg	0.29 J <i>J</i>	0.85	0.20	0.21 U	0.93	0.21	4656570		
Perfluorodecane Sulfonate	ug/kg	0.17 U <i>u</i>	0.85	0.17	0.19 U	0.93	0.19	4656570		
Perfluorodecanoic Acid (PFDA)	ug/kg	0.24 U <i>u</i>	0.85	0.24	0.26 U	0.93	0.26	4656570		
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.20 U <i>u</i>	0.85	0.20	0.22 U	0.93	0.22	4656570		
Perfluoroheptanoic Acid (PFHpA)	ug/kg	0.15 U <i>u</i>	0.85	0.15	0.17 U	0.93	0.17	4656570		
Perfluorohexane Sulfonate (PFHxS)	ug/kg	0.22 J <i>J</i>	0.85	0.16	0.44 J <i>J</i>	0.93	0.18	4656570		
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.18 U <i>u</i>	0.85	0.18	0.20 U <i>u</i>	0.93	0.20	4656570		
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	0.25 J <i>J</i>	0.85	0.10	0.32 J <i>J</i>	0.93	0.11	4656570		
Perfluorononanoic Acid (PFNA)	ug/kg	0.20 J <i>J</i>	0.85	0.12	0.30 J <i>J</i>	0.93	0.13	4656570		
Perfluorooctane Sulfonamide (PFOSA)	ug/kg	0.14 U <i>u</i>	0.85	0.14	0.16 U <i>u</i> <i>7a</i>	0.93	0.16	4656570		
Perfluorooctane Sulfonate (PFOS)	ug/kg	3.7	0.85	0.14	6.7	0.93	0.15	4656570		
Perfluoropentanoic Acid (PFPeA)	ug/kg	0.18 U <i>u</i>	0.85	0.18	0.20 U <i>u</i>	0.93	0.20	4656570		
Perfluorotetradecanoic Acid	ug/kg	0.19 U <i>u</i>	0.85	0.19	0.20 U	0.93	0.20	4656570		
Perfluorotridecanoic Acid	ug/kg	0.21 U <i>u</i>	0.85	0.21	0.23 U	0.93	0.23	4656570		
Perfluoroundecanoic Acid (PFUnA)	ug/kg	0.22 U <i>u</i>	0.85	0.22	0.24 U	0.93	0.24	4656570		
Surrogate Recovery (%)										
13C4-Perfluorooctanesulfonate	%	103	N/A	N/A	94	N/A	N/A	4656570		
13C4-Perfluorooctanoic acid	%	96	N/A	N/A	82	N/A	N/A	4656570		
13C8-Perfluorooctanesulfonamide	%	89	N/A	N/A	67	N/A	N/A	4656570		
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable										

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DAI223				DAI224			
Sampling Date		2016/09/02 15:00				2016/09/02 15:00			
COC Number		n/a				n/a			
	UNITS	VLKFD06-002-SS-001	RDL	MDL	QC Batch	VLKFD06-002-SS-901	RDL	MDL	QC Batch
Inorganics									
Moisture	%	19	1.0	0.50	4654155	18	1.0	0.50	4654013
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ug/kg	0.25 U <i>u</i>	1.0	0.25	4661418	0.28 U <i>u</i>	1.1	0.28	4656570
8:2 Fluorotelomer sulfonate	ug/kg	0.21 U <i>u</i>	1.0	0.21	4661418	0.23 U <i>u</i>	1.1	0.23	4656570
Perfluorobutane Sulfonate (PFBS)	ug/kg	0.25 U <i>u</i>	1.0	0.25	4661418	0.28 U <i>u</i>	1.1	0.28	4656570
Perfluorobutanoic acid	ug/kg	0.32 J <i>J</i>	1.0	0.23	4661418	0.54 J <i>J</i>	1.1	0.25	4656570
Perfluorodecane Sulfonate	ug/kg	0.20 U <i>u</i>	1.0	0.20	4661418	0.22 U <i>u</i>	1.1	0.22	4656570
Perfluorodecanoic Acid (PFDA)	ug/kg	0.28 U <i>u</i>	1.0	0.28	4661418	0.31 U <i>u</i>	1.1	0.31	4656570
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.24 U <i>u</i>	1.0	0.24	4661418	0.26 U <i>u</i>	1.1	0.26	4656570
Perfluoroheptanoic Acid (PFHpA)	ug/kg	0.18 U <i>u</i>	1.0	0.18	4661418	0.40 J <i>J</i>	1.1	0.20	4656570
Perfluorohexane Sulfonate (PFHxS)	ug/kg	0.34 J <i>J</i>	1.0	0.19	4661418	0.31 J <i>J</i>	1.1	0.21	4656570
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.21 U <i>u</i>	1.0	0.21	4661418	0.57 J <i>J</i>	1.1	0.23	4656570
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	0.13 J <i>J 17</i>	1.0	0.12	4661418	0.46 J <i>J 17</i>	1.1	0.13	4656570
Perfluorononanoic Acid (PFNA)	ug/kg	0.40 J <i>J</i>	1.0	0.14	4661418	0.44 J <i>J</i>	1.1	0.15	4656570
Perfluorooctane Sulfonamide (PFOSA)	ug/kg	0.17 U <i>u</i>	1.0	0.17	4661418	0.19 U <i>u</i>	1.1	0.19	4656570
Perfluorooctane Sulfonate (PFOS)	ug/kg	2.2 <i>J 17</i>	1.0	0.16	4661418	4.1 <i>J 17</i>	1.1	0.18	4656570
Perfluoropentanoic Acid (PFPeA)	ug/kg	0.21 U <i>u</i>	1.0	0.21	4661418	0.23 U <i>u</i>	1.1	0.23	4656570
Perfluorotetradecanoic Acid	ug/kg	0.22 U <i>u</i>	1.0	0.22	4661418	0.24 U <i>u</i>	1.1	0.24	4656570
Perfluorotridecanoic Acid	ug/kg	0.25 U <i>u</i>	1.0	0.25	4661418	0.28 U <i>u</i>	1.1	0.28	4656570
Perfluoroundecanoic Acid (PFUnA)	ug/kg	0.26 U <i>u</i>	1.0	0.26	4661418	0.29 U <i>u</i>	1.1	0.29	4656570
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	108 Q	N/A	N/A	4661418	82	N/A	N/A	4656570
13C4-Perfluorooctanoic acid	%	105 Q	N/A	N/A	4661418	84	N/A	N/A	4656570
13C8-Perfluorooctanesulfonamide	%	88	N/A	N/A	4661418	77	N/A	N/A	4656570
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DAI225			DAI232				
Sampling Date		2016/09/02 15:30			2016/09/02 08:30				
COC Number		n/a			n/a				
	UNITS	VLKFD06-002-SO-002	RDL	MDL	VLKFD04-001-SS-001	RDL	MDL	QC Batch	
Inorganics									
Moisture	%	20	1.0	0.50	19	1.0	0.50	4654013	
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ug/kg	0.28 U <i>u</i>	1.1	0.28	0.24 U <i>u</i>	0.96	0.24	4656570	
8:2 Fluorotelomer sulfonate	ug/kg	0.23 U <i>↓</i>	1.1	0.23	0.20 U <i>↓</i>	0.96	0.20	4656570	
Perfluorobutane Sulfonate (PFBS)	ug/kg	0.28 U <i>↓</i>	1.1	0.28	0.24 U <i>↓</i>	0.96	0.24	4656570	
Perfluorobutanoic acid	ug/kg	0.25 U <i>↓</i>	1.1	0.25	0.22 U <i>↓</i>	0.96	0.22	4656570	
Perfluorodecane Sulfonate	ug/kg	0.22 U <i>↓</i>	1.1	0.22	0.19 U <i>↓</i>	0.96	0.19	4656570	
Perfluorodecanoic Acid (PFDA)	ug/kg	0.31 U <i>↓</i>	1.1	0.31	0.27 U <i>↓</i>	0.96	0.27	4656570	
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.26 U <i>↓</i>	1.1	0.26	0.23 U <i>↓</i>	0.96	0.23	4656570	
Perfluoroheptanoic Acid (PFHpA)	ug/kg	0.20 U <i>↓</i>	1.1	0.20	0.17 U <i>↓</i>	0.96	0.17	4656570	
Perfluorohexane Sulfonate (PFHxS)	ug/kg	0.48 J <i>J</i>	1.1	0.21	0.19 J <i>J</i>	0.96	0.18	4656570	
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.23 U <i>u</i>	1.1	0.23	0.20 U <i>u</i>	0.96	0.20	4656570	
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	0.32 J <i>J</i>	1.1	0.13	0.27 J <i>J</i>	0.96	0.12	4656570	
Perfluorononanoic Acid (PFNA)	ug/kg	0.20 J <i>J</i>	1.1	0.15	0.13 U <i>u</i>	0.96	0.13	4656570	
Perfluorooctane Sulfonamide (PFOSA)	ug/kg	0.19 U <i>u57a</i>	1.1	0.19	0.16 U <i>u57a</i>	0.96	0.16	4656570	
Perfluorooctane Sulfonate (PFOS)	ug/kg	2.8	1.1	0.18	1.2	0.96	0.15	4656570	
Perfluoropentanoic Acid (PFPeA)	ug/kg	0.23 U <i>u</i>	1.1	0.23	0.20 U <i>u</i>	0.96	0.20	4656570	
Perfluorotetradecanoic Acid	ug/kg	0.24 U <i>↓</i>	1.1	0.24	0.21 U <i>↓</i>	0.96	0.21	4656570	
Perfluorotridecanoic Acid	ug/kg	0.28 U <i>↓</i>	1.1	0.28	0.24 U <i>↓</i>	0.96	0.24	4656570	
Perfluoroundecanoic Acid (PFUnA)	ug/kg	0.29 U <i>↓</i>	1.1	0.29	0.25 U <i>↓</i>	0.96	0.25	4656570	
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	81	N/A	N/A	86	N/A	N/A	4656570	
13C4-Perfluorooctanoic acid	%	89	N/A	N/A	78	N/A	N/A	4656570	
13C8-Perfluorooctanesulfonamide	%	64	N/A	N/A	68	N/A	N/A	4656570	
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DAI233				DAI234			
Sampling Date		2016/09/02 08:55				2016/09/02 10:08			
COC Number		n/a				n/a			
	UNITS	VLKFD04-001-SO-003	RDL	MDL	QC Batch	VLKFD04-002-SS-001	RDL	MDL	QC Batch
Inorganics									
Moisture	%	11	1.0	0.50	4654013	19	1.0	0.50	4654155
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ug/kg	0.21 U <i>u</i>	0.85	0.21	4656570	0.25 U <i>u</i>	1.0	0.25	4661418
8:2 Fluorotelomer sulfonate	ug/kg	0.18 U <i>J</i>	0.85	0.18	4656570	0.21 U <i>J</i>	1.0	0.21	4661418
Perfluorobutane Sulfonate (PFBS)	ug/kg	0.21 U <i>J</i>	0.85	0.21	4656570	0.25 U <i>J</i>	1.0	0.25	4661418
Perfluorobutanoic acid	ug/kg	0.20 U <i>J</i>	0.85	0.20	4656570	0.23 U <i>J</i>	1.0	0.23	4661418
Perfluorodecane Sulfonate	ug/kg	0.17 U <i>J</i>	0.85	0.17	4656570	0.24 J <i>J</i>	1.0	0.20	4661418
Perfluorodecanoic Acid (PFDA)	ug/kg	0.24 U <i>J</i>	0.85	0.24	4656570	0.28 U <i>u</i>	1.0	0.28	4661418
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.20 U <i>J</i>	0.85	0.20	4656570	0.24 U <i>u</i>	1.0	0.24	4661418
Perfluoroheptanoic Acid (PFHpA)	ug/kg	0.15 U <i>J</i>	0.85	0.15	4656570	0.18 U <i>u</i>	1.0	0.18	4661418
Perfluorohexane Sulfonate (PFHxS)	ug/kg	0.84 J <i>J</i>	0.85	0.16	4656570	0.58 J <i>J</i>	1.0	0.19	4661418
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.44 J <i>J</i>	0.85	0.18	4656570	0.21 U <i>u</i>	1.0	0.21	4661418
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	0.39 J <i>J</i>	0.85	0.10	4656570	0.29 J <i>J</i>	1.0	0.12	4661418
Perfluorononanoic Acid (PFNA)	ug/kg	0.12 U <i>u</i>	0.85	0.12	4656570	0.17 J <i>J</i>	1.0	0.14	4661418
Perfluorooctane Sulfonamide (PFOSA)	ug/kg	0.14 U <i>u</i>	0.85	0.14	4656570	0.17 U <i>u</i>	1.0	0.17	4661418
Perfluorooctane Sulfonate (PFOS)	ug/kg	1.5	0.85	0.14	4656570	4.6	1.0	0.16	4661418
Perfluoropentanoic Acid (PFPeA)	ug/kg	0.18 U <i>u</i>	0.85	0.18	4656570	0.22 J <i>J</i>	1.0	0.21	4661418
Perfluorotetradecanoic Acid	ug/kg	0.19 U <i>J</i>	0.85	0.19	4656570	0.22 U <i>u</i>	1.0	0.22	4661418
Perfluorotridecanoic Acid	ug/kg	0.21 U <i>J</i>	0.85	0.21	4656570	0.25 U <i>u</i>	1.0	0.25	4661418
Perfluoroundecanoic Acid (PFUnA)	ug/kg	0.22 U <i>J</i>	0.85	0.22	4656570	0.26 U <i>u</i>	1.0	0.26	4661418
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	85	N/A	N/A	4656570	89 Q	N/A	N/A	4661418
13C4-Perfluorooctanoic acid	%	78	N/A	N/A	4656570	100 Q	N/A	N/A	4661418
13C8-Perfluorooctanesulfonamide	%	87	N/A	N/A	4656570	86	N/A	N/A	4661418
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DAI235			DAI236				
Sampling Date		2016/09/02 10:37			2016/09/02 11:40				
COC Number		n/a			n/a				
	UNITS	VLKFD04-002-SO-003	RDL	MDL	VLKFD04-003-SS-001	RDL	MDL	QC Batch	
Inorganics									
Moisture	%	29	1.0	0.50	36	1.0	0.50	4654013	
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ug/kg	0.28 U <i>u</i>	1.1	0.28	0.30 U <i>UJ 7a</i>	1.2	0.30	4656570	
8:2 Fluorotelomer sulfonate	ug/kg	0.23 U <i>u</i>	1.1	0.23	0.25 U <i>UJ 7a</i>	1.2	0.25	4656570	
Perfluorobutane Sulfonate (PFBS)	ug/kg	0.28 U <i>u</i>	1.1	0.28	0.30 U <i>UJ 7a</i>	1.2	0.30	4656570	
Perfluorobutanoic acid	ug/kg	0.25 U <i>u</i>	1.1	0.25	0.28 U <i>u</i>	1.2	0.28	4656570	
Perfluorodecane Sulfonate	ug/kg	0.22 U <i>u</i>	1.1	0.22	0.24 U <i>UJ 7a</i>	1.2	0.24	4656570	
Perfluorodecanoic Acid (PFDA)	ug/kg	0.31 U <i>u</i>	1.1	0.31	0.34 U <i>u</i>	1.2	0.34	4656570	
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.26 U <i>u</i>	1.1	0.26	0.29 U <i>u</i>	1.2	0.29	4656570	
Perfluoroheptanoic Acid (PFHpA)	ug/kg	0.20 U <i>u</i>	1.1	0.20	0.22 U <i>u</i>	1.2	0.22	4656570	
Perfluorohexane Sulfonate (PFHxS)	ug/kg	0.61 J <i>J</i>	1.1	0.21	0.39 J <i>J 7a</i>	1.2	0.23	4656570	
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.23 U <i>u</i>	1.1	0.23	0.25 U <i>u</i>	1.2	0.25	4656570	
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	0.39 J <i>J</i>	1.1	0.13	0.37 J <i>J</i>	1.2	0.14	4656570	
Perfluorononanoic Acid (PFNA)	ug/kg	0.15 U <i>u</i>	1.1	0.15	0.17 U <i>u</i>	1.2	0.17	4656570	
Perfluorooctane Sulfonamide (PFOSA)	ug/kg	0.19 U <i>u</i>	1.1	0.19	0.20 U <i>u</i>	1.2	0.20	4656570	
Perfluorooctane Sulfonate (PFOS)	ug/kg	0.80 J <i>J</i>	1.1	0.18	1.9 J <i>J 7a</i>	1.2	0.19	4656570	
Perfluoropentanoic Acid (PFPeA)	ug/kg	0.23 U <i>u</i>	1.1	0.23	0.25 U <i>u</i>	1.2	0.25	4656570	
Perfluorotetradecanoic Acid	ug/kg	0.24 U <i>u</i>	1.1	0.24	0.26 U <i>UJ 10a</i>	1.2	0.26	4656570	
Perfluorotridecanoic Acid	ug/kg	0.28 U <i>u</i>	1.1	0.28	0.30 U <i>UJ 10a</i>	1.2	0.30	4656570	
Perfluoroundecanoic Acid (PFUnA)	ug/kg	0.29 U <i>u</i>	1.1	0.29	0.31 U <i>u</i>	1.2	0.31	4656570	
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	90	N/A	N/A	69	N/A	N/A	4656570	
13C4-Perfluorooctanoic acid	%	92	N/A	N/A	80	N/A	N/A	4656570	
13C8-Perfluorooctanesulfonamide	%	76	N/A	N/A	70	N/A	N/A	4656570	
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DAI237				DAI239			
Sampling Date		2016/09/02 12:30				2016/09/05 12:10			
COC Number		n/a				n/a			
	UNITS	VLKFD04-003-SO-003	RDL	MDL	QC Batch	VLKFD04-004-SD-001	RDL	MDL	QC Batch
Inorganics									
Moisture	%	24	1.0	0.50	4654155	47	1.0	0.50	4654155
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ug/kg	0.28 U <i>u</i>	1.1	0.28	4661418	0.38 U <i>u</i>	1.5	0.38	4662145
8:2 Fluorotelomer sulfonate	ug/kg	0.23 U <i>u</i>	1.1	0.23	4661418	0.32 U <i>u</i>	1.5	0.32	4662145
Perfluorobutane Sulfonate (PFBS)	ug/kg	0.28 U <i>u</i>	1.1	0.28	4661418	0.38 U <i>u</i>	1.5	0.38	4662145
Perfluorobutanoic acid	ug/kg	0.25 U <i>u</i>	1.1	0.25	4661418	0.35 U <i>u</i>	1.5	0.35	4662145
Perfluorodecane Sulfonate	ug/kg	0.22 U <i>u</i>	1.1	0.22	4661418	0.36 J <i>J</i>	1.5	0.30	4662145
Perfluorodecanoic Acid (PFDA)	ug/kg	0.31 U <i>u</i>	1.1	0.31	4661418	0.42 U <i>u</i>	1.5	0.42	4662145
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.26 U <i>u</i>	1.1	0.26	4661418	0.36 U <i>u</i>	1.5	0.36	4662145
Perfluoroheptanoic Acid (PFHpA)	ug/kg	0.20 U <i>u</i>	1.1	0.20	4661418	0.27 U <i>u</i>	1.5	0.27	4662145
Perfluorohexane Sulfonate (PFHxS)	ug/kg	0.60 J <i>J</i>	1.1	0.21	4661418	0.68 J <i>J 17</i>	1.5	0.29	4662145
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.23 U <i>u</i>	1.1	0.23	4661418	0.32 U <i>u</i>	1.5	0.32	4662145
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	0.17 J <i>J</i>	1.1	0.13	4661418	0.33 J <i>J</i>	1.5	0.18	4662145
Perfluorononanoic Acid (PFNA)	ug/kg	0.15 U <i>u</i>	1.1	0.15	4661418	0.21 U <i>u</i>	1.5	0.21	4662145
Perfluorooctane Sulfonamide (PFOSA)	ug/kg	0.19 U <i>u</i>	1.1	0.19	4661418	0.26 U <i>u 57a</i>	1.5	0.26	4662145
Perfluorooctane Sulfonate (PFOS)	ug/kg	0.61 J <i>J</i>	1.1	0.18	4661418	3.9 J <i>J 17</i>	1.5	0.24	4662145
Perfluoropentanoic Acid (PFPeA)	ug/kg	0.23 U <i>u</i>	1.1	0.23	4661418	0.32 U <i>u</i>	1.5	0.32	4662145
Perfluorotetradecanoic Acid	ug/kg	0.24 U <i>u</i>	1.1	0.24	4661418	0.51 J <i>J</i>	1.5	0.33	4662145
Perfluorotridecanoic Acid	ug/kg	0.28 U <i>u</i>	1.1	0.28	4661418	0.38 U <i>u</i>	1.5	0.38	4662145
Perfluoroundecanoic Acid (PFUnA)	ug/kg	0.29 U <i>u</i>	1.1	0.29	4661418	0.39 U <i>u</i>	1.5	0.39	4662145
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	103 Q	N/A	N/A	4661418	70	N/A	N/A	4662145
13C4-Perfluorooctanoic acid	%	107 Q	N/A	N/A	4661418	74	N/A	N/A	4662145
13C8-Perfluorooctanesulfonamide	%	84	N/A	N/A	4661418	61	N/A	N/A	4662145
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									

Maxxam Job #: B61239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DAI242	DAI243			DAI250			
Sampling Date		2016/09/02 17:30	2016/09/02 16:05			2016/09/05 17:15			
COC Number		n/a	n/a			n/a			
	UNITS	VLKFD06-004-SD-001	VLKFD06-005-SS-001	RDL	MDL	VLKFD06-003-SD-001	RDL	MDL	QC Batch
Inorganics									
Moisture	%	68	68	1.0	0.50	88	1.0	0.50	4654013
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ug/kg	0.68 U <i>u</i>	0.68 U <i>u</i>	2.7	0.68	1.9 U <i>US 7a</i>	7.6	1.9	4656570
8:2 Fluorotelomer sulfonate	ug/kg	0.57 U <i>u</i>	0.57 U <i>u</i>	2.7	0.57	1.6 U <i>J</i>	7.6	1.6	4656570
Perfluorobutane Sulfonate (PFBS)	ug/kg	0.68 U <i>u</i>	0.68 U <i>u</i>	2.7	0.68	1.9 U <i>J</i>	7.6	1.9	4656570
Perfluorobutanoic acid	ug/kg	0.62 U <i>u</i>	1.4 J <i>J</i>	2.7	0.62	1.7 U <i>J</i>	7.6	1.7	4656570
Perfluorodecane Sulfonate	ug/kg	2.5 J <i>J</i>	0.54 U <i>u</i>	2.7	0.54	5.5 J <i>J 7a</i>	7.6	1.5	4656570
Perfluorodecanoic Acid (PFDA)	ug/kg	0.90 J <i>J</i>	0.98 J <i>J</i>	2.7	0.76	5.9 J <i>J 7a</i>	7.6	2.1	4656570
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.65 U <i>u</i>	0.65 U <i>u</i>	2.7	0.65	1.8 U <i>US 7a</i>	7.6	1.8	4656570
Perfluoroheptanoic Acid (PFHpA)	ug/kg	0.49 U <i>u</i>	1.2 J <i>J</i>	2.7	0.49	1.4 U <i>US 7a</i>	7.6	1.4	4656570
Perfluorohexane Sulfonate (PFHxS)	ug/kg	2.8	44	2.7	0.51	5.9 J <i>J 7a</i>	7.6	1.4	4656570
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.57 U <i>u</i>	1.9 J <i>J</i>	2.7	0.57	1.6 U <i>US 7a</i>	7.6	1.6	4656570
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	0.64 J <i>J</i>	5.6	2.7	0.32	2.3 J <i>J</i>	7.6	0.91	4656570
Perfluorononanoic Acid (PFNA)	ug/kg	1.9 J <i>J</i>	5.2	2.7	0.38	1.1 U <i>u J</i>	7.6	1.1	4656570
Perfluorooctane Sulfonamide (PFOSA)	ug/kg	3.1 <i>J 7a</i>	0.46 U <i>US 10a</i>	2.7	0.46	4.5 J <i>J</i>	7.6	1.3	4656570
Perfluorooctane Sulfonate (PFOS)	ug/kg	67	76	2.7	0.43	110 <i>J</i>	7.6	1.2	4656570
Perfluoropentanoic Acid (PFPeA)	ug/kg	0.57 U <i>u</i>	1.2 J <i>J</i>	2.7	0.57	1.6 U <i>u J</i>	7.6	1.6	4656570
Perfluorotetradecanoic Acid	ug/kg	0.59 U <i>US 10a</i>	0.59 U <i>US 10a</i>	2.7	0.59	1.7 U <i>US 10a</i>	7.6	1.7	4656570
Perfluorotridecanoic Acid	ug/kg	0.68 U <i>US 10a</i>	0.68 U <i>US 10a</i>	2.7	0.68	1.9 U <i>US 10a</i>	7.6	1.9	4656570
Perfluoroundecanoic Acid (PFUnA)	ug/kg	0.97 J <i>J</i>	0.70 U <i>u</i>	2.7	0.70	3.9 J <i>J 7a</i>	7.6	2.0	4656570
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	83	72	N/A	N/A	63	N/A	N/A	4656570
13C4-Perfluorooctanoic acid	%	86	78	N/A	N/A	67	N/A	N/A	4656570
13C8-Perfluorooctanesulfonamide	%	64	52	N/A	N/A	61	N/A	N/A	4656570
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DAI259	DAI262			DAI263			
Sampling Date		2016/09/05 12:10	2016/09/05 08:00			2016/09/05 08:00			
COC Number		n/a	n/a			n/a			
	UNITS	VLKFD04-004-SD-901	VLKFD03-007-SS-001	RDL	MDL	VLKFD03-007-SS-901	RDL	MDL	QC Batch
Inorganics									
Moisture	%	35	34	1.0	0.50	35	1.0	0.50	4654013
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ug/kg	0.30 U <i>u</i>	0.30 U <i>u</i>	1.2	0.30	0.33 U <i>u</i>	1.3	0.33	4656570
8:2 Fluorotelomer sulfonate	ug/kg	0.25 U	0.25 U	1.2	0.25	0.27 U	1.3	0.27	4656570
Perfluorobutane Sulfonate (PFBS)	ug/kg	0.30 U	0.30 U	1.2	0.30	0.33 U	1.3	0.33	4656570
Perfluorobutanoic acid	ug/kg	0.28 U	0.28 U	1.2	0.28	0.30 U	1.3	0.30	4656570
Perfluorodecane Sulfonate	ug/kg	0.24 U	0.24 U	1.2	0.24	0.26 U	1.3	0.26	4656570
Perfluorodecanoic Acid (PFDA)	ug/kg	0.34 U	0.34 U	1.2	0.34	0.36 U	1.3	0.36	4656570
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.29 U	0.29 U	1.2	0.29	0.31 U	1.3	0.31	4656570
Perfluoroheptanoic Acid (PFHpA)	ug/kg	0.22 U	0.22 U	1.2	0.22	0.23 U	1.3	0.23	4656570
Perfluorohexane Sulfonate (PFHxS)	ug/kg	0.34 J <i>J 17</i>	0.34 J <i>J</i>	1.2	0.23	0.31 J <i>J</i>	1.3	0.25	4656570
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.25 U <i>u</i>	0.25 U <i>u</i>	1.2	0.25	0.27 U <i>u</i>	1.3	0.27	4656570
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	0.14 U <i>u</i>	0.14 U	1.2	0.14	0.16 U	1.3	0.16	4656570
Perfluorononanoic Acid (PFNA)	ug/kg	0.17 U <i>u</i>	0.17 U	1.2	0.17	0.18 U	1.3	0.18	4656570
Perfluorooctane Sulfonamide (PFOSA)	ug/kg	0.20 U <i>u 57a</i>	0.20 U	1.2	0.20	0.22 U	1.3	0.22	4656570
Perfluorooctane Sulfonate (PFOS)	ug/kg	1.9 J <i>J 17</i>	1.8	1.2	0.19	1.6	1.3	0.21	4656570
Perfluoropentanoic Acid (PFPeA)	ug/kg	0.25 U <i>u</i>	0.25 U <i>u</i>	1.2	0.25	0.27 U <i>u</i>	1.3	0.27	4656570
Perfluorotetradecanoic Acid	ug/kg	0.26 U	0.26 U	1.2	0.26	0.29 U <i>u 10a</i>	1.3	0.29	4656570
Perfluorotridecanoic Acid	ug/kg	0.30 U	0.30 U	1.2	0.30	0.33 U <i>u 10a</i>	1.3	0.33	4656570
Perfluoroundecanoic Acid (PFUnA)	ug/kg	0.31 U	0.31 U	1.2	0.31	0.34 U <i>u</i>	1.3	0.34	4656570
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	73	82	N/A	N/A	81	N/A	N/A	4656570
13C4-Perfluorooctanoic acid	%	78	83	N/A	N/A	86	N/A	N/A	4656570
13C8-Perfluorooctanesulfonamide	%	64	77	N/A	N/A	72	N/A	N/A	4656570
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									

Maxxam Job #: B6J1239
Report Date: 2016/09/23

Aerostar SES LLC
Client Project #: M2027.0003 (OMAHA)
Site Location: VOLK FIELD ANG

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DAI264			
Sampling Date		2016/09/05 08:35			
COC Number		n/a			
	UNITS	VLKFD02-004-SS-001	RDL	MDL	QC Batch
Inorganics					
Moisture	%	54	1.0	0.50	4654013
Miscellaneous Parameters					
6:2 Fluorotelomer sulfonate	ug/kg	0.45 U <i>u</i>	1.8	0.45	4656570
8:2 Fluorotelomer sulfonate	ug/kg	0.38 U <i> </i>	1.8	0.38	4656570
Perfluorobutane Sulfonate (PFBS)	ug/kg	0.45 U <i> </i>	1.8	0.45	4656570
Perfluorobutanoic acid	ug/kg	0.41 U <i> </i>	1.8	0.41	4656570
Perfluorodecane Sulfonate	ug/kg	0.36 U <i> </i>	1.8	0.36	4656570
Perfluorodecanoic Acid (PFDA)	ug/kg	0.50 U <i> </i>	1.8	0.50	4656570
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.43 U <i>v</i>	1.8	0.43	4656570
Perfluoroheptanoic Acid (PFHpA)	ug/kg	0.57 J <i>J</i>	1.8	0.32	4656570
Perfluorohexane Sulfonate (PFHxS)	ug/kg	0.69 J <i>J</i>	1.8	0.34	4656570
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.38 U <i>u</i>	1.8	0.38	4656570
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	0.55 J <i>J</i>	1.8	0.22	4656570
Perfluorononanoic Acid (PFNA)	ug/kg	0.25 U <i>u</i>	1.8	0.25	4656570
Perfluorooctane Sulfonamide (PFOSA)	ug/kg	0.31 U <i>u 7a</i>	1.8	0.31	4656570
Perfluorooctane Sulfonate (PFOS)	ug/kg	2.9	1.8	0.29	4656570
Perfluoropentanoic Acid (PFPeA)	ug/kg	0.38 U <i>u</i>	1.8	0.38	4656570
Perfluorotetradecanoic Acid	ug/kg	0.40 U <i> </i>	1.8	0.40	4656570
Perfluorotridecanoic Acid	ug/kg	0.45 U <i> </i>	1.8	0.45	4656570
Perfluoroundecanoic Acid (PFUnA)	ug/kg	0.47 U <i>v</i>	1.8	0.47	4656570
Surrogate Recovery (%)					
13C4-Perfluorooctanesulfonate	%	85	N/A	N/A	4656570
13C4-Perfluorooctanoic acid	%	80	N/A	N/A	4656570
13C8-Perfluorooctanesulfonamide	%	67	N/A	N/A	4656570
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable					