MARKETING AND DISTRIBUTION MONTHLY REPORT FORM

(Complete and submit this form to IDEM 30 days after the last day of each month)

revised 09/2008

OFFICE OF WATER QUALITY
2016 DEC -5 A 10:35

PERMIT NO.: INA000761

FACILITY NAME:

MONTH:

YEAR:

Month	Dry Tons	Lab. No. (Lab No. corresponds to lab data entered below)
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November	85.38	16080688
December		

Analytical Results: Enter heavy metals results as dry weights. Enter detection limit when result is nondetectable

Lab Nos.:	1	2	3	4	5	6	7	8	9	10	11	12
Sample Report Date	8-12-16											
Percent Total Solids	68											
Arsenic (As)	0.479											
Cadmium (Cd)	< 0.363											
Copper (Cu)	0.940											
Lead (Pb)	< 0.450											
Mercury (Hg)	< 0.421											
Molybdenum (Mo)	< 0.392											
Nickel (Ni)	1.80											
Selenium (Se)	< 0.842											
Zinc (Zn)	< 4.21											

Enter all nutrient results as percent dry weights

Total N (TN)	0.0651											
Ammonium N (NH4-N)	0.0309											
Nitrate N (NO3-N)	0.0126											
Phosphorus (P)	0.00305											
Potassium (K)	0.0271											

Enter PCB results as dry weight

PCB

RECEIVED
DEC 06 2016
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

Signature: Bill Stemmler Date: 11-30-16

RECIPIENTS OF 1 DRY TON OR GREATER

NAME	ADDRESS	QUANTITY	DATE

James Wenger / 2254 S St Rd 301 / 6.57/TON 11-1-16
Rod Bollenbacher / 11507 S 500 E / 75/TON 11-1-16
D+L Bluhm / 3241 W St Rd 124 / 3.81/TON 11-17-16

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materials technology

Element Materials Technology - Fort Wayne
2121 E. Washington Blvd.
Fort Wayne, IN 46803
TEL: (260) 424-1622
Website: www.element.com

8-12-2016

To: Bill Steinecker
New Era Ag, LLC
1522 S 0 Rd
Monroe, IN 46772-9317
TEL:
FAX: (260) 692-1492

Parameter	Method Reference
Arsenic	SW6020
Cadmium	SW6020
Calcium	SW6010C
Copper	SW6020
Lead	SW6020
Mercury	SW6020
Molybdenum	SW6020
Nickel	SW6020
Nitrogen, Ammonia (As N)	M4500-NH3 BC
Nitrogen, Kjeldahl, Total	E351.2
Nitrogen, Nitrate (As N)	E353.2
Percent Moisture	M2540 G
Percent Solids	M2540 G
Potassium	SW6010C
Selenium	SW6020
Sulfur	SW6010C
Total Phosphorus	SW6010C
Zinc	SW6020

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Fort Wayne, IN 46803
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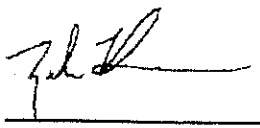
REPORT OF ANALYSIS

Lab Number: 16080688
Client Sample ID: Gypsum - New Era Ag

Date Sampled: 08/04/2016
Date Received: 08/04/2016
Date Reported: 08/12/2016

Parameter	Wet Basis			Dry Basis		Table 1#	Table 3#	Loading Rate		Analyst	Date Analyzed	Method Reference
	Result	Unit	MRL	Result	Unit	mg/kg	mg/kg	Lbs/Wet Ton	Lbs/Dry Ton			
Total Nitrogen	443	mg/Kg	0.600	0.0651	%			0.885	1.30	CRT	8/8/2016	Calculated
Nitrogen, Kjeldahl, Total	357	mg/Kg	47.2	0.05	%			0.71	1.05	CRT	8/8/2016	E351.2
Nitrogen, Ammonia (As N)	210	mg/Kg	1.0	0.0309	%			0.420	0.617	CRT	8/9/2016	M4500-NH3 BC
Nitrogen, Nitrate (As N)	85.8	mg/Kg	0.600	0.0126	%			0.172	0.252	CRT	8/8/2016	E353.2
Total Phosphorus	20.7	mg/Kg	19.7	0.00305	%			0.0415	0.0611	CXC	8/11/2016	SW6010C
Phosphorus (as P2O5)	47.5	mg/Kg	19.7	0.00699	%			0.0950	0.140	CXC	8/11/2016	Calculated
Potassium	184	mg/Kg	98.6	0.0271	%			0.368	0.542	CXC	8/11/2016	SW6010C
Potassium (as K2O)	221	mg/Kg	98.6	0.0325	%			0.442	0.650	CXC	8/11/2016	Calculated
Arsenic	0.325	mg/Kg	0.247	0.479	mg/Kg	75	41	0.00065	0.00096	CXC	8/9/2016	SW6020
Cadmium	<0.247	mg/Kg	0.247	<0.363	mg/Kg	85	39	<0.00049	<0.00073	CXC	8/9/2016	SW6020
Copper	0.639	mg/Kg	0.473	0.940	mg/Kg	4300	1500	0.00128	0.00188	CXC	8/9/2016	SW6020
Lead	<0.306	mg/Kg	0.306	<0.450	mg/Kg	840	300	<0.00061	<0.00090	CXC	8/9/2016	SW6020
Mercury	<0.286	mg/Kg	0.286	<0.421	mg/Kg	57	17	<0.00057	<0.00084	CXC	8/9/2016	SW6020
Molybdenum	<0.266	mg/Kg	0.266	<0.392	mg/Kg	75		<0.00053	<0.00078	CXC	8/9/2016	SW6020
Nickel	1.22	mg/Kg	0.256	1.80	mg/Kg	420	420	0.00245	0.00360	CXC	8/9/2016	SW6020
Selenium	<0.572	mg/Kg	0.572	<0.842	mg/Kg	100	100	<0.00114	<0.00168	CXC	8/9/2016	SW6020
Zinc	<2.86	mg/Kg	2.86	<4.21	mg/Kg	7500	2800	<0.00572	<0.00842	CXC	8/9/2016	SW6020
Percent Solids	68.0	wt%			%					JXL	8/5/2016	M2540 G
Percent Moisture	32.03	wt%			%					JXL	8/5/2016	M2540 G
Calcium	56500	mg/Kg	986	83200	mg/Kg			113	166	CXC	8/11/2016	SW6010C

Report Approved By: 

Zach A. Bowman - Project Manager

Approval Date: **8/12/2016**

element materials technology

Element Materials Technology - Fort Wayne
2121 E. Washington Blvd
Fort Wayne, IN 46803
TEL: (260) 424-1622
Website: www.element.com

REPORT OF ANALYSIS

Lab Number: 16080688

Client Sample ID: Gypsum - New Era Ag

Date Sampled: 08/04/2016

Date Received: 08/04/2016

Date Reported: 08/12/2016

Parameter	Wet Basis			Dry Basis		Table 1#	Table 3#	Loading Rate		Analyst	Date Analyzed	Method Reference
	Result	Unit	MRL	Result	Unit	mg/kg	mg/kg	Lbs/Wet Ton	Lbs/Dry Ton			
Sulfur	51400	mg/Kg	9860	75600	mg/Kg			103	151	CXC	8/11/2016	SW6010C
IDEM PAN*										CALC	8/11/2016	327 IAC 6.1-4-10(b)
- Aerobic Digestion	---	---	---	---	---	---	---	---	1.07524			
- Anaerobic Digestion	---	---	---	---	---	---	---	---	1.00674			

Table 1 and Table 3 pollution concentrations for biosolids or industrial waste products, EPA-600/4-79-020, 327 IAC 6.1-5

* Plant Available Nitrogen (PAN) calculations assume incorporation or injection with no prior year contribution of mineralized N.

Report Number:
F16218-7002
Account Number:
24015

a&lgreatlakes
LABORATORIES
Scientists who don't mind getting dirty.™

3505 Conestoga Dr.
Fort Wayne, IN 46808
260.483.4759
algreatlakes.com

To: ELEMENT MATERIALS TECHNOLOGY
2121 E WASHINGTON BLVD
FORT WAYNE, IN 46803-1328

Lab Number: 49697
PURCHASE ORDER: EFW013954

Attn: ZACH BOWMAN
Sample ID: 16080688-001A
Expected Analysis: NONE GIVEN

LIME ANALYSIS

Date Received: 8/5/2016
Date Reported: 8/11/2016

Analysis	Result		Unit	Reporting Limit (As-Received Basis)	Method Reference
	As-Received Basis	Dry Basis			
Moisture (105 deg. C)	36.3	0.0	%	0.1	AOAC 950.01
Solids	63.7	100.0	%	0.1	AOAC 950.01
Calcium Carbonate Equiv. (CCE)	0.6	0.9	%	0.1	AOAC 955.01

Report Approved By:

Approval Date: 8/11/2016

Don Burgess - Agronomist / Technical Services - CPAg/CPSS/CCA

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CHAIN OF CUSTODY RECORD

Omega COCID 75348 | PAGE: 1 | OF: 1

ADDRESS

Element Materials Technology - Fort Wayne
2121 E. Washington Blvd.
Fort Wayne, IN 46803
TEL: (260) 424-1622
FAX: (260) 424-9124
Website: www.element.com

SUB CONTRATOR: A_L_Labs	COMPANY: A&L Great Lakes Labs
ADDRESS: 3505 Conestoga Drive	
CITY, STATE, ZIP: Ft. Wayne, IN 46808-4414	
PHONE: (260) 483-4759 FAX:	EMAIL:
ACCOUNT #:	PO #: A_L_Labs_1

SPECIAL INSTRUCTIONS / COMMENTS:

PO# EFW0139954

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
1	16080688-001A CCE_FW	Gypsum - New Era	500HDPE	Other	8/4/2016 9:00:00 AM	1	

Shipping Method: (circle)

NOW (UPS) Fed Ex

1ZDV90150347746938

Relinquished By: K. Rwasany	Date: 8-4-16	Time: 1540	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples _____ °C Attempt to Cool ? _____

Comments: _____

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CHAIN OF CUSTODY RECORD

Omega COCID 75425	PAGE: 1	OF: 1

ADDRESS
Element Materials Technology - Fort Wayne
2121 E. Washington Blvd.
Fort Wayne, IN 46803
TEL: (260) 424-1622
FAX: (260) 424-9124
Website: www.element.com

Lab ID	**Dale01**	Lab Name	**Element Materials Technology**
ADDRESS:	**9301 Innovation Drive**		
CITY, STATE, ZIP:	**Daleville, IN 47334**		
PHONE: **(765) 378-4103**	FAX: **(765) 378-4109**	EMAIL:	
ACCOUNT #:			

SPECIAL INSTRUCTIONS / COMMENTS:

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
1	16080688-001A	Gypsum - New Era	500HDPE	Other	8/4/2016 9:00:00 AM	1	
	MET_S_ICP, MET_S_ICPMS						

Shipping Method: (circle)

NOW / UPS / Fed Ex

Relinquished By: Tyler Swaren	Date: 8-5-16	Time: 1400	Received By:	Date: 8/5/16	Time: 1543
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples 8 °C Attempt to Cool ? Y

Comments:

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Chain of Custody

Laboratory Number: 16080688

Page 1 of 1

	Client Information:	Billing Information:	PO Number:	Project Name/Number:
Company Name:	NEWERA AG			Bill Steinecker
Contact Name:	BILL STEINECKER		Quote Number:	Sampler's Signature
Address:	1522 S. 000 Rd			Bill Steinecker
			Required QC Level	
City, State Zip:	MONROE, IN 46772			
Phone Number:	260-849-9104 Ext:	Ext:	Bill Monthly	Shipping Method:
Fax Number:			☐Yes	UPS / FedEx / NOW
E-mail Address:	NEWERAAGBILL@YAHOO.COM		☐No	DHL / Element / (Hand) / Mail

Matrix Code

DW = Drinking Water
WW = Waste Water
GW = Ground Water
AQ = Aqueous
OT = Other
SL = Sludge SOL = Solid
O = Oil SO = Soil
F = Food SW = Swab
NG = Natural Gas
NGL = Natural Gas Liquid
PW = Produced Water
CF = Completion Fluid

Which Regulations Apply:
☐RCRA ☐Drinking Water
☐POTW ☐Distribution
☐NPDES ☐Special
☐USDA/FDA ☐State
☐RECAP/RISC ☐Other

Turn Time
☐Standard
RUSH
☐1 Day
☐2 Day
☐Other

(Rush turn times will incur a surcharge and must be pre-approved by lab.)

Sample ID/Description	Collection Information: Date	Time	Grab / Composite	Matrix	Container: Quantity	Type P=Plastic, G=Glass, V=Vial	Pres.: HCl, HNO_3, H_2SO_4, NaOH, $Na_2S_2O_3$	Requested Tests: Land App II	CCE	Ca, S							Comments
Gypsum	8-4-16	9:00 AM		OT	1	bag	NONE	x	x	x							SAMPLES MEET ACCEPTANCE POLICY Y (N)
																	Client OK w/sample NOT Transported on ice.

	Relinquished by	Date/Time	Received by	Date/Time
1	Bill Steinecker	8-4-16 1515	K. Kwasny	8-4-16 1515
2				
3				

Field Notes:

Received at lab on ice? ☐Yes ☒No Temp: 24

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

9301 Innovation Drive, Suite 115, Daleville, IN 47334-0569 USA, P 765-378-4103, F 765-378-4109
629 Washington St. Suite 300, Columbus, IN 47201-6231 USA, P 812-375-0531, F 812-375-0731
2121 East Washington Boulevard, Fort Wayne, IN 46803-1328 USA, P 260-471-7000, F 260-471-7777
909 Executive Dr, Warsaw, IN 46580-2368 USA, P 574-267-3305, F 574-269-6569
3371 Cleveland Road, Suite 100A, South Bend, IN 46628-9780 USA, P 574-277-0707, F 574-273-5699
2417 W. Pinhook Rd, Lafayette, LA 70508-3344 USA, P 337-235-0483, F 337-233-6540

New Era Ag Synthetic Gypsum User Information Sheet

- Synthetic Gypsum Produced By

  Duke Energy
  10544 Brower Road
  North Bend, Ohio 45052

- Synthetic Gypsum Marketed and Distributed By

  New Era Ag
  1522 South 000 Road
  Monroe, Indiana 46772
  260-692-1492

- **THE APPLICATION AND USE OF SYNTHETIC GYPSUM IS PROHIBITED EXCEPT IN ACCORDANCE WITH THE INSTRUCTIONS ON THE INFORMATION SHEET.**
  1. THE PRODUCT WILL BE USED FOR THE PURPOSE OF NUTRIENT ENHANCEMENT OF AGRICULTURAL CROPS AND FOR POSITIVE STRUCTURE MODIFICATION OF SOILS.
  2. GYPSUM WILL BE APPLIED AT RATES UP TO 2 TONS PER ACRE WITHOUT PERMISSION FROM NEW ERA AG.
  3. PRODUCT WILL BE STORED IN STOCKPILES FOR NO MORE THAN SIX MONTHS IN ACCORDANCE WITH INDIANA RULES AS FOLLOWS.
     1. PRODUCT WILL NOT BE STORED WITHIN 300 FEET OF SURFACE WATERS OR CONDUIT TO A SUBSURFACE FEATURE.

2. PRODUCT WILL NOT BE STORED WITHIN 660 FEET OF A RESIDENCE OR 660 FEET OF A PUBLIC BUILDING OR PUBLIC OR NON-PUBLIC SCHOOL.

3. PRODUCT WILL NOT BE STORED WITHIN 200 FEET OF A POTABLE WATER SUPPLY.

4. PRODUCT WILL NOT BE STOCKPILED ON A SLOPE GREATER THAN 2% OR IN A FLOOD PLAIN.

4. APPLICATION RESTRICTIONS

1. SYNTHETIC GYPSUM WILL NOT BE APPLIED WITHIN 660 FEET OF A RESIDENCE. WRITTEN PERMISSION OF THE OWNER OR TENANT MAY BE OBTAINED TO APPLY CLOSER. GYPSUM WILL NOT BE APPLIED OR WITHIN 660 FEET OF A PUBLIC BUILDING OR PUBLIC OR NON-PUBLIC SCHOOL.

2. SYNTHETIC GYPSUM WILL BE APPLIED TO AGRICULTURAL LAND ONLY.

- THE MOST RECENT ANALYSIS OF THE SYNTHETIC GYPSUM IS ATTACHED TO THIS INFORMATION SHEET.
- IF THE ANALYSIS REVEALS MORE THAN 2 MILLIGRAMS PER KILOGRAM CADMIUM. THE SOIL pH MUST BE AT LEAST 6.5 TO BE APPLIED FOR FOOD CROPS.
- IF THE ANALYSIS REVEALS MORE THAN 40 MILLIGRAMS PER KILOGRAM OF MOLYBDENUM, THE SYNTHETIC GYPSUM MUST NOT BE APPLIED TO PASTURE.