ATTACHMENT 11
BIDDER CERTIFIED PRODUCT DATA SHEET

Bidder Name:

LOT 1 - Liquid Calcium Chloride – Corrosion Inhibited

Complete all fields listed below: Additional attachments will not be accepted in lieu of this data sheet.

Product Name (Brand Name):_____
Manufacturer's Name: _____
Manufacturer's Address _____

Active Ingredients:
Inorganic salts:

Material	Requirement	Content, % (w/w)	Material	Content, % (w/w)
NaCl			Other	
$CaCl_2$	>30% by weight (Tolerance : +3%, -1%)		Other	
$MgCl_2$				

Does this product, or any of its constituents, have a New York State Department of Environmental Conservation Beneficial Use Determination (BUD)? Yes ☐ No ☐ If yes, issue date and BUD #:_____(Include copy of BUD with Bid)

If no, provide values below for **Trace Constituent:**

Constituent	Concentration (ppm in product as received)	
Arsenic	*Max: 5.00 ppm*	
Barium	*Max: 75.00 ppm*	
Cadmium	*Max: 0.20 ppm*	
Chromium	*Max: 0.50ppm*	
Copper	*Max: 4.00ppm*	

Constituent	Concentration (ppm in product as received)	
Cyanide	*Max: 0.20 ppm*	
Lead	*Max: 1.00 ppm*	
Mercury	*Max: 0.05 ppm*	
Phosphorus	*Max: 250.00 ppm*	
Selenium	*Max: 5.00 ppm*	
Zinc	*Max: 10.00 ppm*	

pH of product at 1:4 Dilution (*6.0 – 10.0*):_____ Corrosion Inhibition vs 3% Sodium Chloride Solution (*Min. 70%*):_____

Total Settleable Solids (*> 1.0% V/V*): _____ % Solids passing #10 Sieve (*< 99%*): _____

Specific Gravity (15.5°/15.5°C) of product as Rec'd: _____

Weight per Gallon of product as rec'd: _____

Total Solids (105°C, 1 hour): _____

Total Ash (450°C, 1 hour): _____

BOD5 (Biological Oxygen Demand) (mg/L):_____

Is this product on the Pacific Northwest States (PNS) approved list? Yes ☐ No ☐

Certification: By signature affixed below, I hereby certify the above information to be complete and accurate and further certify that the product described meets or exceeds all additional specification requirements applicable to this offering. I further certify that any product delivered under the product name shown on this sheet will meet or exceed all applicable specification requirements and be equal or better in quality to the product described on this sheet.

Signed: _____ **Date:** _____

Printed Name: _____ **Title:** _____

ATTACHMENT 11
BIDDER CERTIFIED PRODUCT DATA SHEET

Bidder Name:

LOT 2 - Liquid Calcium Chloride with Organic Based Performance Enhancer (OBPE)

Complete all fields listed below: Additional attachments will not be accepted in lieu of this data sheet.

Product Name (Brand Name):_____
Manufacturer's Name: _____
Manufacturer's Address _____

Active Ingredients:

Inorganic salts:

Material	Requirement	Content, % (w/w)	Material	Content, % (w/w)
NaCl			Other	
$CaCl_2$	13% – 24% by weight		Other	
$MgCl_2$				

Organic Constituents:

Material	Requirement	Content as % (w/w) of product	Purpose/Function
	Min. 12%		

Does this product, or any of its constituents, have a New York State Department of Environmental Conservation Beneficial Use Determination (BUD)? Yes ☐ No ☐ If yes, issue date and BUD #:_____(Include copy of BUD with Bid)

If no, provide values below for **Trace Constituent:**

Constituent	Concentration (ppm in product as received)	
Arsenic	*Max: 5.00 ppm*	
Barium	*Max: 75.00 ppm*	
Cadmium	*Max: 0.20 ppm*	
Chromium	*Max: 0.50ppm*	
Copper	*Max: 4.00ppm*	

Constituent	Concentration (ppm in product as received)	
Cyanide	*Max: 0.20 ppm*	
Lead	*Max: 1.00 ppm*	
Mercury	*Max: 0.05 ppm*	
Phosphorus	*Max: 250.00 ppm*	
Selenium	*Max: 5.00 ppm*	
Zinc	*Max: 10.00 ppm*	

pH of product at 1:4 Dilution (*3.2 – 8.0*): _____ Corrosion Inhibition vs 3% Sodium Chloride Solution (*Min. 70%*): _____

Total Settleable Solids (*Max 4.0%.*): _____ % Solids passing #10 Sieve (*Min. 99%*): _____

Specific Gravity (15.5°/15.5°C) of product as Rec'd: _____ Eutectic (freezing) point (≤ -20°F)_____

Weight per Gallon of product as rec'd: _____

Total Solids (Min. 35% - evaporated 105°C, 1 hour): _____

Total Ash (450°C, 1 hour): _____

BOD5 (Biological Oxygen Demand) (mg/L):_____

Is this product on the Pacific Northwest States (PNS) approved list? Yes ☐ No ☐

Certification: By signature affixed below, I hereby certify the above information to be complete and accurate and further certify that the product described meets or exceeds all additional specification requirements applicable to this offering. I further certify that any product delivered under the product name shown on this sheet will meet or exceed all applicable specification requirements and be equal or better in quality to the product described on this sheet.

Signed: _____ **Date:** _____

Printed Name: _____ **Title:** _____

ATTACHMENT 11
BIDDER CERTIFIED PRODUCT DATA SHEET

Bidder Name:

Lot 3 - Liquid Magnesium/Calcium Chloride – Corrosion Inhibited

Product Name (Brand name): _____
Manufacturer's Name: _____
Manufacturer's Address _____

Active Ingredients:

Inorganic salts:

Material	Requirement	Content, % (w/w)
NaCl		
$CaCl_2 + MgCl_2$	*25% Min*	
$MgCl_2$	*19% Min*	

Material	Content, % (w/w)
Other	
Other	

Does this product, or any of its constituents, have a New York State Department of Environmental Conservation Beneficial Use Determination (BUD)? Yes ☐ No ☐ If yes, issue date and BUD #: _____(Include copy of BUD with Bid)

If no, provide values below for **Trace Constituent:**

Constituent	Concentration (ppm in product as received)	
Arsenic	*Max: 5.00 ppm*	
Barium	*Max: 75.00 ppm*	
Cadmium	*Max: 0.20 ppm*	
Chromium	*Max: 0.50ppm*	
Copper	*Max: 4.00ppm*	

Constituent	Concentration (ppm in product as received)	
Cyanide	*Max: 0.20 ppm*	
Lead	*Max: 1.00 ppm*	
Mercury	*Max: 0.05 ppm*	
Phosphorus	*Max: 250.00 ppm*	
Selenium	*Max: 5.00 ppm*	
Zinc	*Max: 10.00 ppm*	

pH of product at 1:4 Dilution (*6.0 – 9.0*): _____ Corrosion Inhibition vs 3% Sodium Chloride Solution (*Min. 70%*): _____

Total Settleable Solids (*> 1.0% V/V*): _____ % Solids passing #10 Sieve (*< 99%*): _____

Specific Gravity (15.5°/15.5°C) of product as Rec'd: _____ Eutectic (freezing) point -20°F or lower:_____

Weight per Gallon of product as rec'd:_____ Total Solids (105°C, 1 hour): _____

Total Ash (450°C, 1 hour): _____

Is this product on the Pacific Northwest States (PNS) approved list? Yes ☐ No ☐

Certification: By signature affixed below, I hereby certify the above information to be complete and accurate and further certify that the product described meets or exceeds all additional specification requirements applicable to this offering. I further certify that any product delivered under the product name shown on this sheet will meet or exceed all applicable specification requirements and be equal or better in quality to the product described on this sheet.

Signed: _____ **Date:** _____

Printed Name: _____ **Title:** _____

ATTACHMENT 11
BIDDER CERTIFIED PRODUCT DATA SHEET

Bidder Name:

Lot 4 - Liquid Magnesium/Calcium Chloride with Organic Based Performance Enhancer (OBPE)

Product Name (Brand name): _____
Manufacturer's Name: _____
Manufacturer's Address _____

Active Ingredients:

Inorganic salts:

Material	Requirement	Content, % (w/w)
NaCl		
$CaCl_2 + MgCl_2$	*22% Min*	
$MgCl_2$	*13% – 25%*	

Material	Requirement	Content, % (w/w)
Other		
Other		

Organic Constituents:

Material	Requirement	Content as % (w/w) of product	Purpose/Function
	8%		

Does this product, or any of its constituents, have a New York State Department of Environmental Conservation Beneficial Use Determination (BUD)? Yes ☐ No ☐ If yes, issue date and BUD #: _____(Include copy of BUD with Bid)

If no, provide values below for **Trace Constituent:**

Constituent	Concentration (ppm in product as received)	
Arsenic	*Max: 5.00 ppm*	
Barium	*Max: 75.00 ppm*	
Cadmium	*Max: 0.20 ppm*	
Chromium	*Max: 0.50ppm*	
Copper	*Max: 4.00ppm*	

Constituent	Concentration (ppm in product as received)	
Cyanide	*Max: 0.20 ppm*	
Lead	*Max: 1.00 ppm*	
Mercury	*Max: 0.05 ppm*	
Phosphorus	*Max: 250.00 ppm*	
Selenium	*Max: 5.00 ppm*	
Zinc	*Max: 10.00 ppm*	

pH of product at 1:4 Dilution (*3.2 –7.5)* _____ Corrosion Inhibition vs 3% Sodium Chloride Solution: _____

Total Settleable Solids (*< 4.0% V/V*): _____ % Solids passing #10 Sieve (*< 99%*): _____

Specific Gravity (15.5°/15.5°C) of product as Rec'd: _____ Eutectic (freezing) point -20°F or lower:_____

Weight per Gallon of product as rec'd:_____ Total Solids (105°C, 1 hour) (Min.*35% w/w*): _____

Total Ash (450°C, 1 hour): _____ BOD5 (Biological Oxygen Demand) (mg/L): _____

Is this product on the Pacific Northwest States (PNS) approved list? Yes ☐ No ☐

Certification: By signature affixed below, I hereby certify the above information to be complete and accurate and further certify that the product described meets or exceeds all additional specification requirements applicable to this offering. I further certify that any product delivered under the product name shown on this sheet will meet or exceed all applicable specification requirements and be equal or better in quality to the product described on this sheet.

Signed: _____ **Date:** _____

Printed Name: _____ **Title:** _____

ATTACHMENT 11
BIDDER CERTIFIED PRODUCT DATA SHEET

Bidder Name:

Lot 5 & 6: Granular Sodium Chloride (Treated Rock Salt)

Product Name (Brand name): _____
(to be provided under **OGS Lot II or Lot III** *as shown on Safety Data Sheets provided with this bid)*

Manufacturer's Name: _____

Manufacturer's Address _____

COMPOSITION:

The % Sodium Chloride shall then be computed as follows:
% Sodium Chloride = % Apparent Sodium Chloride - (% Magnesium Chloride + % Calcium Chloride)

Material	Requirement	Content, % (w/w)
NaCl	*Min : 91.2%*	
Water (Moisture)	*Max : 4.8%**	

*Procedure shall be in accordance with ANSI/AWWA B200-03, Moisture Determination or the latest revision thereof. A tolerance of 0.5% will be allowed before a deduction is assessed.

CERTIFIED SIZE GRADING:

The salt, when tested using sieves as described in ASTM D632 (*) shall conform to the following requirements for particle size distribution:

Sieve Size	Percent Passing Required (**)	Percent Passing
1/2" - (12.5 MM)	100%	
3/8" - (9.5 MM)	95% – 100%	
No. 4 - (4.75 MM)	20% – 90%	
No. 8 - (2.36 MM)	10% - 60%	
No. 30 - (600 Microns)	0% - 15%	

* -A drying temperature of 110°C ± 5°C should be used.

**-Tolerance of 5 percentage points on the maximum value of the range for each sieve except 1/2" (12.5 mm) and 3/8" (9.5 mm) sizes, on which no tolerance will be allowed.

Certification: By signature affixed below, I hereby certify the above information to be complete and accurate and further certify that the product described meets or exceeds all additional specification requirements applicable to this offering. I further certify that any product delivered under the product name shown on this sheet will meet or exceed all applicable specification requirements and be equal or better in quality to the product described on this sheet.

Signed: _____ **Date:** _____

Printed Name: _____ **Title:** _____

ATTACHMENT 11
BIDDER CERTIFIED PRODUCT DATA SHEET

Bidder Name:

LOT 7 - Calcium Chloride Flake ASTM Type S Class A

Complete all fields listed below: Additional attachments will not be accepted in lieu of this data sheet.

Product Name (Brand Name): _____
Manufacturer's Name: _____
Manufacturer's Address _____

Active Ingredients:

Inorganic salts:

Material	Requirement	Content, % (w/w)	Material	Requirement	Content, % (w/w)
NaCl	*Max 8.0%*		Other	*Max 1.0%*	
$CaCl_2$	*Min. 83%*		Other		
$MgCl_2$	*Max 0.5%*				

Does this product, or any of its constituents, have a New York State Department of Environmental Conservation Beneficial Use Determination (BUD)? Yes ☐ No ☐ If yes, issue date and BUD #: _____(Include copy of BUD with Bid)

If no, provide values below for **Trace Constituent:**

Constituent	Concentration (ppm in product as received)	
Arsenic	*Max: 5.00 ppm*	
Barium	*Max: 75.00 ppm*	
Cadmium	*Max: 0.20 ppm*	
Chromium	*Max: 0.50ppm*	
Copper	*Max: 4.00ppm*	

Constituent	Concentration (ppm in product as received)	
Cyanide	*Max: 0.20 ppm*	
Lead	*Max: 1.00 ppm*	
Mercury	*Max: 0.05 ppm*	
Phosphorus	*Max: 250.00 ppm*	
Selenium	*Max: 5.00 ppm*	
Zinc	*Max: 10.00 ppm*	

Sieve Size	Percent Passing Required (**)	Percent Passing
3/8" - (9.5 MM)	100%	
No. 4 - (4.75 MM)	80% – 100%	
No. 30 - (600 Microns)	0% - 5%	

Is this product on the Pacific Northwest States (PNS) approved list? Yes ☐ No ☐

Certification: By signature affixed below, I hereby certify the above information to be complete and accurate and further certify that the product described meets or exceeds all additional specification requirements applicable to this offering. I further certify that any product delivered under the product name shown on this sheet will meet or exceed all applicable specification requirements and be equal or better in quality to the product described on this sheet.

Signed: _____ **Date:** _____

Printed Name: _____ **Title:** _____

ATTACHMENT 11
BIDDER CERTIFIED PRODUCT DATA SHEET

Bidder Name:

LOT 8 - Calcium Chloride Pellet ASTM Type S Grade 2 Class B

Complete all fields listed below: Additional attachments will not be accepted in lieu of this data sheet.

Product Name (Brand Name): _____
Manufacturer's Name: _____
Manufacturer's Address _____

Active Ingredients:

Inorganic salts:

Material	Requirement	Content, % (w/w)	Material	Requirement	Content, % (w/w)
NaCl	*Max 8.0%*		Other	*Max 1.0%*	
$CaCl_2$	*Min. 90.0%*		Other		
$MgCl_2$	*Max 0.5%*				

Does this product, or any of its constituents, have a New York State Department of Environmental Conservation Beneficial Use Determination (BUD)? Yes ☐ No ☐ If yes, issue date and BUD #: _____(Include copy of BUD with Bid)

If no, provide values below for **Trace Constituent:**

Constituent	Concentration (ppm in product as received)	
Arsenic	*Max: 5.00 ppm*	
Barium	*Max: 75.00 ppm*	
Cadmium	*Max: 0.20 ppm*	
Chromium	*Max: 0.50ppm*	
Copper	*Max: 4.00ppm*	

Constituent	Concentration (ppm in product as received)	
Cyanide	*Max: 0.20 ppm*	
Lead	*Max: 1.00 ppm*	
Mercury	*Max: 0.05 ppm*	
Phosphorus	*Max: 250.00 ppm*	
Selenium	*Max: 5.00 ppm*	
Zinc	*Max: 10.00 ppm*	

Sieve Size	Percent Passing Required (**)	Percent Passing
3/8" - (9.5 MM)	100%	
No. 4 - (4.75 MM)	80% – 100%	
No. 20 - (850 MM)	0%-10%	
No. 30 - (600 Microns)	0% - 5%	

Is this product on the Pacific Northwest States (PNS) approved list? Yes ☐ No ☐

Certification: By signature affixed below, I hereby certify the above information to be complete and accurate and further certify that the product described meets or exceeds all additional specification requirements applicable to this offering. I further certify that any product delivered under the product name shown on this sheet will meet or exceed all applicable specification requirements and be equal or better in quality to the product described on this sheet.

Signed: _____ **Date:** _____

Printed Name: _____ **Title:** _____

ATTACHMENT 11
BIDDER CERTIFIED PRODUCT DATA SHEET

Bidder Name:

Lot 9 & 10 - Granular Sodium Chloride (Solar Salt)

Product Name (Brand name):_____

Manufacturer's Name: _____

Manufacturer's Address _____

COMPOSITION:

Shall be not less than 95% sodium chloride. Percent of sodium chloride shall be determined in accordance with ASTM D632 or the latest revision thereof.

Material	Percent Required	Content, % (w/w)
NaCl	*Min. 95%*	
Water (Moisture)	*Max. 2.5%**	

*Procedure shall be in accordance with ANSI/AWWA B200-03, Moisture Determination or the latest revision thereof. A tolerance of 0.5% will be allowed before a deduction is assessed.

CERTIFIED SIZE GRADING:

The Solar Salt, when tested in accordance with ASTM D632 (*) or the latest revision thereof shall conform to the following size for particle size distribution:

Sieve Size	Percent Passing Required**	Percent Passing
3/4" – (19.05 MM)	100%	
1/2" - (12.5 MM)	99 – 100%	
3/8" - (9.5 MM)	95 – 100%	
1/4" – (6.35 MM)	65 – 90%	
No. 4 - (4.75 MM)	20 – 80%	
No. 8 - (2.36 MM)	10 – 30%	
No. 30 - (600 Microns)	0 – 15%	

* -A drying temperature of 110°C + 5°C may be used.
**-Tolerance of 5 percentage points on the maximum value of the range for each sieve except 1/2" (12.5 mm) and 3/8" (9.5 mm) sizes, on which no tolerance will be allowed.

Certification: By signature affixed below, I hereby certify the above information to be complete and accurate and further certify that the product described meets or exceeds all additional specification requirements applicable to this offering. I further certify that any product delivered under the product name shown on this sheet will meet or exceed all applicable specification requirements and be equal or better in quality to the product described on this sheet.

Signed: _____ **Date:** _____

Printed Name: _____ **Title:** _____