

## ParaFlow™ Solution Analysis Report

<b>Customer Name</b>	DuPont Experimental Stn	<b>Sample Drawn</b>	Oct 3,2016
<b>Unit Model No.</b>	YPCST22G46CXA	<b>Report Date</b>	Oct 17,2016
<b>Unit Serial No.</b>	GLCM157836 #1	<b>Report Number</b>	R18841
<b>Sample Received</b>	Oct 11,2016	<b>PO Number</b>	1-41018275797

Inhibitor Type: **Molybdate**

	<u>Sample Data</u>	<u>Allowable Range</u> (Based on 55% LiBr)	<u>Converted Data</u> (Sample data converted to 55%)
<b>Sample Concentration</b>	<b>52.39</b> % LiBr		<b>55.00</b> % LiBr
<b>Sample Specific Gravity</b>	<b>1.569</b> at 75°F		<b>1.620</b> at 75°F
<b>Lithium Molybdate Inhibitor</b>	<b>217</b> mg/l	<b>225-325</b>	<b>235</b> mg/l
<b>Alkalinity (Lithium Hydroxide)</b>	<b>0.194</b> N	<b>0.14-0.22</b>	<b>0.210</b> N
<b>Dissolved Copper</b>	<b>50</b> mg/l	<b>0-100</b>	<b>54</b> mg/l
<b>Ammonia</b>	<b>89</b> mg/l	<b>0-100</b>	<b>96</b> mg/l
<b>Lithium Nitrate</b>	<b>7</b> mg/l		<b>8</b> mg/l

### Corrections Necessary

<b>Lithium Molybdate Inhibitor</b>	No
<b>Lithium Hydroxide</b>	No
<b>Copper Removal</b>	No
<b>Ammonia Removal</b>	No

Data included in this report are the result of only one solution sample. If there is a drastic change in any parameter as compared with the last sample result, prior to adding chemicals or performing Copper or Ammonia Removal, it may be advisable to resample. The best method of preventing problems due to improper solution chemistry is by taking regular samples and trending the sample data. Maintaining proper Solution Chemistry is critical to the life of your ParaFlow Unit. **York Factory Service** is factory trained and authorized to perform the necessary chemical additions and adjustments required to keep your unit operable and reliable.

## ParaFlow™ Solution Analysis Report

<b>Customer Name</b>	DuPont Experimental Stn	<b>Sample Drawn</b>	Oct 3,2016
<b>Unit Model No.</b>	YPCST22G46CXA	<b>Report Date</b>	Oct 17,2016
<b>Unit Serial No.</b>	GBDM248980 #2	<b>Report Number</b>	R18812
<b>Sample Received</b>	Oct 11,2016	<b>PO Number</b>	1-41018275797

Inhibitor Type: **Molybdate**

	<u>Sample Data</u>	<u>Allowable Range</u> (Based on 55% LiBr)	<u>Converted Data</u> (Sample data converted to 55%)
<b>Sample Concentration</b>	<b>51.95</b> % LiBr		<b>55.00</b> % LiBr
<b>Sample Specific Gravity</b>	<b>1.562</b> at 75°F		<b>1.620</b> at 75°F
<b>Lithium Molybdate Inhibitor</b>	<b>144</b> mg/l	<b>225-325</b>	<b>158</b> mg/l
<b>Alkalinity (Lithium Hydroxide)</b>	<b>0.156</b> N	<b>0.14-0.22</b>	<b>0.171</b> N
<b>Dissolved Copper</b>	<b>46</b> mg/l	<b>0-100</b>	<b>51</b> mg/l
<b>Ammonia</b>	<b>74</b> mg/l	<b>0-100</b>	<b>81</b> mg/l
<b>Lithium Nitrate</b>	<b>12</b> mg/l		<b>13</b> mg/l

### Corrections Necessary

<b>Lithium Molybdate Inhibitor</b>	Add .000103 lbs. of solid Li <sub>2</sub> MoO <sub>4</sub> per lb. of solution in the unit OR Add .000032 gals of 30% Li <sub>2</sub> MoO <sub>4</sub> solution per lb. of solution in the unit.
<b>Lithium Hydroxide</b>	No
<b>Copper Removal</b>	No
<b>Ammonia Removal</b>	No

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## ParaFlow™ Solution Analysis Report

<b>Customer Name</b>	DuPont Experimental Stn	<b>Sample Drawn</b>	Oct 4,2016
<b>Unit Model No.</b>	YPC22G46CXA	<b>Report Date</b>	Oct 17,2016
<b>Unit Serial No.</b>	GADM233620 #3	<b>Report Number</b>	R18796
<b>Sample Received</b>	Oct 11,2016	<b>PO Number</b>	1-41018275797

Inhibitor Type: **Molybdate**

	<u>Sample Data</u>	<u>Allowable Range</u> (Based on 55% LiBr)	<u>Converted Data</u> (Sample data converted to 55%)
<b>Sample Concentration</b>	<b>52.93</b> % LiBr		<b>55.00</b> % LiBr
<b>Sample Specific Gravity</b>	<b>1.579</b> at 75°F		<b>1.620</b> at 75°F
<b>Lithium Molybdate Inhibitor</b>	<b>184</b> mg/l	<b>225-325</b>	<b>196</b> mg/l
<b>Alkalinity (Lithium Hydroxide)</b>	<b>0.152</b> N	<b>0.14-0.22</b>	<b>0.162</b> N
<b>Dissolved Copper</b>	<b>45</b> mg/l	<b>0-100</b>	<b>48</b> mg/l
<b>Ammonia</b>	<b>104</b> mg/l	<b>0-100</b>	<b>111</b> mg/l
<b>Lithium Nitrate</b>	<b>26</b> mg/l		<b>28</b> mg/l

### Corrections Necessary

<b>Lithium Molybdate Inhibitor</b>	Add .000080 lbs. of solid Li <sub>2</sub> MoO <sub>4</sub> per lb. of solution in the unit OR Add .000025 gals of 30% Li <sub>2</sub> MoO <sub>4</sub> solution per lb. of solution in the unit.
<b>Lithium Hydroxide</b>	No
<b>Copper Removal</b>	No
<b>Ammonia Removal</b>	Yes

**Consult York Factory Service**

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## ParaFlow™ Solution Analysis Report

<b>Customer Name</b>	DuPont Experimental Stn	<b>Sample Drawn</b>	Oct 4,2016
<b>Unit Model No.</b>	YPCST22G46CXA	<b>Report Date</b>	Oct 17,2016
<b>Unit Serial No.</b>	GNCM94230017 #4	<b>Report Number</b>	R18840
<b>Sample Received</b>	Oct 11,2016	<b>PO Number</b>	1-41018275797

**Inhibitor Type:** Molybdate

	<u>Sample Data</u>	<u>Allowable Range</u> <small>(Based on 55% LiBr)</small>	<u>Converted Data</u> <small>(Sample data converted to 55%)</small>
<b>Sample Concentration</b>	52.68		55.00
<b>Sample Specific Gravity</b>	1.575		1.620
<b>Lithium Molybdate Inhibitor</b>	280	225-325	301
<b>Alkalinity (Lithium Hydroxide)</b>	0.146	0.14-0.22	0.157
<b>Dissolved Copper</b>	24	0-100	26
<b>Ammonia</b>	61	0-100	66
<b>Lithium Nitrate</b>	42		45

### Corrections Necessary

<b>Lithium Molybdate Inhibitor</b>	No
<b>Lithium Hydroxide</b>	No
<b>Copper Removal</b>	No
<b>Ammonia Removal</b>	No

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