LOTIC PROPER FUNCTIONING CONDITION (PFC) STANDARD CHECKLIST

Record ID No: _____

Describe the lotic site (i.e., riparian site; non-riparian site): _____

Reach Number: _____ ESG Site ID: _____

Allotment Number: _____ Allotment Number: _____

Allotment Name: _____ Allotment Name: _____

Waterbody Name: _____

Functional rating: _____

Apparent trend for Functional—At Risk: _____

Channel length (miles): _____

Approximate polygon size (acres): _____

Date assessed: _____

Reach Number: _____ Record ID No: _____

Assessment method (Complete reconnaissance, Selective inspection of representative areas, Remote imagery with selective ground inspection) : _____

NOTE: Imagery provided by the USDI Bureau of Land Management

Reach Number: _____

NARRATIVE EXECUTIVE SUMMARY

Record ID No: _____

Reach Number: _____ Record ID No: _____

ADMINISTRATIVE DATA Unique Location ID: _____ Reach ID: _____

A1. Field data collected by: _____

A2. Funding Agency/Organization: _____

A3a. BLM State Office: _____

A3b. BLM Field Office/Field Station: _____

A3c. BLM Office Code: _____ **A3d.** Is the polygon in an active BLM grazing allotment? (Yes; No; NA): _____

If ***Yes,*** **A3e:** Allotment Number: _____ **A3f:** Allotment Number: _____

Allotment ID: _____ Allotment ID: _____

Allotment Name: _____ Allotment Name: _____

Management Status: _____ Management Status: _____

A4. USFWS Refuge: _____

A5. Reservation: _____

A6. NPS Park/NHS: _____

A7. USFS National Forest: _____

A8. Other Location: _____

A9. Year: _____ **A10.** Date field data collected: _____ **A11.** Observers: _____

A12a. At least some part of this polygon has been inventoried more than once (resampled)? (Yes; No): _____

If ***No,*** go to item **A13a.** If ***Yes,*** **A12b.** This polygon coincides exactly with another inventoried polygon? (Yes; No): _____

A12c. Is this the latest inventory for this polygon? (Yes; No): _____

A12d. ID No.(s) of other inventories of this polygon: _____, _____, _____, _____, _____

A12e. Other years: _____

A12f. This polygon shares common area with other inventoried polygon(s)? (Yes; No): _____ **A12g.** Other years: _____

A12h. ID No.(s) of other records sharing area with this polygon: _____, _____, _____, _____, _____

A13a. Has a change in management occurred? (Yes; No): _____ If ***Yes,*** **A13b.** Year that changed occurred: _____

A13c. Type of management change applied:

LOCATION DATA

B1. State/Province: _____ **B2.** County/Municipal district: _____

B3. Allotment/Range/Management unit: _____

B4a. Waterbody name: _____

B4b. Tributary to: _____

B4c. Group name: _____ **B4d.** Group number: _____ **B5.** Site ID: _____

B6. Reach Number: _____

B7a. BLM Provided Location - START (decimal degrees): Lat: _____ Long: _____

B7b. BLM Provided Location - END (decimal degrees): Lat: _____ Long: _____

B7c. BLM Designated Watershed: _____

Reach Number: _____ Record ID No: _____

B8a. Upper end elevation (ft): _____ ; (m): _____ **B8b.** Lower end elevation (ft): _____ ; (m): _____

B9. Stream channel gradient (percent): _____ % GPS Unit: _____

B10a. Polygon latitude/longitude coordinates: GPS Projection: _____ WAAS Enabled Unit: _____

	Deg	Min	Sec	N/S	Decimal		Deg	Min	Sec	E/W	Decimal	Accuracy +/- ft	Accuracy +/- m	Observer Initial & WPT
Upper: Lat:						Lon:								
Lower: Lat:						Lon:								
Other: Lat:						Lon:								

UTM Descriptions: x y

UTM coordinates of polygon UPPER END: Easting: _____, Northing: _____, Zone: _____

UTM coordinates of polygon LOWER END: Easting: _____ ; Northing: _____ ; Zone: _____

UTM coordinates of any other point of interest in the polygon: East: _____ ; North: _____ ; Zone: _____

B10b. Other Point Comments:

B11. Hydrologic unit code(s) (HUC) from the USGS National Hydrography Dataset (NHD):

HUC LEVELS: Region (2 digits; First Level HUC); Subregion (4 digits; Second Level HUC); Basin (6 digits; Third Level HUC); Subbasin (8 digits; Fourth Level HUC); Watershed (10 digits; Fifth Level HUC); and Subwatershed (12 digits; Sixth Level HUC)

HUC #1: _____
River Miles: _____
Percent of Stream Reach: _____
Region Name: _____
square miles: _____
Subregion Name: _____
square miles: _____
Basin Name: _____
square miles: _____
Subbasin Name: _____
square miles: _____
Watershed Name: _____
square miles: _____
Subwatershed Name: _____
acres: _____

HUC #2: _____
River Miles: _____
Percent of Stream Reach: _____
Region Name: _____
square miles: _____
Subregion Name: _____
square miles: _____
Basin Name: _____
square miles: _____
Subbasin Name: _____
square miles: _____
Watershed Name: _____
square miles: _____
Subwatershed Name: _____
acres: _____

HUC #3: _____
River Miles: _____
Percent of Stream Reach: _____
Region Name: _____
square miles: _____
Subregion Name: _____
square miles: _____
Basin Name: _____
square miles: _____
Subbasin Name: _____
square miles: _____
Watershed Name: _____
square miles: _____
Subwatershed Name: _____
acres: _____

HUC #4: _____
River Miles: _____
Percent of Stream Reach: _____
Region Name: _____
square miles: _____
Subregion Name: _____
square miles: _____
Basin Name: _____
square miles: _____
Subbasin Name: _____
square miles: _____
Watershed Name: _____
square miles: _____
Subwatershed Name: _____
acres: _____

SELECTED SUMMARY DATA Reach Number: _____ Record ID No: _____

C1. Wetland type: _____ **C2.** Polygon size (ac): _____ ; (hect): _____

C3a. Is the entire polygon an upland? (Yes; No): _____ If ***No,*** **C3b.** Does the polygon consist entirely of functional wetland types? (Yes; No): _____ **C3c.** Functional wetland (ac): _____ ; (hect): _____ **C3d**. Percent of total polygon: _____

C4. Does the polygon contain a defined streambank or channel? (Yes; No; NC): _____

C5. Channel length (mi): _____ ; (km): _____ **C6.** Number of river miles the polygon represents: (mi): _____ ; (km): _____

C7a. Average riparian zone width (ft): _____ ; (m): _____

C7b. Riparian zone width range (ft): _____ to _____ ; (m): _____ to _____

C8. Level 1 stream geomorphic characterization (NC = not collected): _____ Stream Type _____ Percent of Stream

_____ Stream Type _____ Percent of Stream

_____ Stream Type _____ Percent of Stream

D1. Habitat Types (HT) and Community Types (CT)

Classification Type Name	Phase	Approx. Percent of Polygon

Successional Stage or Comments: _____

Reach Number: _____ Record ID No: _____

PFC Assessment Form (Lotic)

HYDROLOGY

_____ 1) Floodplain is inundated in “relatively frequent” events.
Rationale:

_____ 2) Beaver dams are stable.
Rationale:

_____ 3) Sinuosity, gradient, and width/depth ratio are in balance with the landscape setting (i.e., landform, geology, and bioclimatic region).
Rationale:

_____ 4) Riparian area is expanding or has achieved potential extent.
Rationale:

_____ 5) Riparian impairment from the upstream or upland watershed is absent.
Rationale:

Reach Number: _____ Record ID No: _____

VEGETATION

_____ 6) There is adequate diversity of stabilizing riparian vegetation for recovery/maintenance.
Rationale:

_____ 7) There are adequate age classes of stabilizing riparian vegetation for recovery/maintenance.
Rationale:

_____ 8) Species present indicate maintenance of riparian soil-moisture characteristics.
Rationale:

_____ 9) Stabilizing plant communities capable of withstanding moderately high streamflow events are present along the streambank.
Rationale:

_____ 10) Riparian plants exhibit high vigor.
Rationale:

_____ 11) An adequate amount of stabilizing riparian vegetation is present to protect banks and dissipate energy during moderately high flows.
Rationale:

_____ 12) Plant communities are an adequate source of woody material for maintenance/recovery.

Rationale:

GEOMORPHOLOGY

_____ 13) Floodplain and channel characteristics (i.e., rocks, woody material, vegetation, floodplain size, overflow channels) are adequate to dissipate energy.

Rationale:

_____ 14) Point bars are revegetating with stabilizing riparian plants.

Rationale:

_____ 15) Streambanks are laterally stable.

Rationale:

_____ 16) Stream system is vertically stable (not incising).

Rationale:

_____ 17) Stream is in balance with the water and sediment that is being supplied by the drainage basin (i.e., no excessive erosion or deposition).

Rationale:

Reach Number: _____ Record ID No: _____

Summary Determination

Functional rating: _____

Apparent trend for Functional—At Risk: _____

Thermometer scale for functionality of the ratings for PFC or FAR (Upper; Middle; Lower): _____

Rationale for rating:

Rationale for trend:

Reach Number: _____ Record ID No: _____

Are factors contributing to unacceptable conditions outside the control of the manager? (Yes; No): _____

If ***Yes,*** what are those factors?

_____ Flow Regulations _____ Mining activities _____ Upstream channel conditions

_____ Channelization _____ Road encroachment _____ Oil field water discharge

_____ Augmented flows _____ Other (specify): _____

Explain factors preventing achievement of PFC:

Wildlife observations:

Reach Number: _____ Record ID No: _____

List the top seven plant species (in terms of canopy cover) in the four lifeforms (trees, shrubs, graminoids, and ferns and allies). Also estimate the canopy cover of these species within the polygon, the duration (i.e., perennial, .biennial, annual), native or introduced, and wetland status (OBL, FACW, FAC, FACU, UPL).

TREES

6 Letter Code	Scientific Name (Common Name)	Canopy Cover (%)	Duration	Native/ Introduced	Wetland Status

SHRUBS

6 Letter Code	Scientific Name (Common Name)	Canopy Cover (%)	Duration	Native/ Introduced	Wetland Status

GRAMINOIDS

6 Letter Code	Scientific Name (Common Name)	Canopy Cover (%)	Duration	Native/ Introduced	Wetland Status

FORBS/FERNS AND ALLIES

6 Letter Code	Scientific Name (Common Name)	Canopy Cover (%)	Duration	Native/ Introduced	Forbs or Ferns Allies	Wetland Status

Reach Number: _____ Record ID No: _____

PHOTOGRAPH DATA

Photographer(s): _____

D1. Identification of photos taken at the ***Upstream End of Polygon:***

Photo Location: Lat: Deg ____ Min ____ Sec ____ N/S ____ Decimal ____ Lon: Deg ____ Min ____ Sec ____ E/W ____ Decimal ____

Photo Direction (degrees) (***Looking Upstream***): ____

Photo nos.: (***Looking Upstream***): _____

Photo Description (If necessary): (***Looking Upstream***):

Photo Direction (degrees) (***Looking Downstream***): ____

Photo nos.: (***Looking Downstream***): _____

Photo Description (If necessary): (***Looking Downstream***):

D2. Identification of photos taken at ***Downstream End of Polygon:***

Photo Location: Lat: Deg ____ Min ____ Sec ____ N/S ____ Decimal ____ Lon: Deg ____ Min ____ Sec ____ E/W ____ Decimal ____

Photo Direction (degrees) (***Looking Upstream***): ____

Photo nos.: (***Looking Upstream***): _____

Photo Description (If necessary): (***Looking Upstream***):

Photo Direction (degrees) (***Looking Downstream***): ____

Photo nos.: (***Looking Downstream***): _____

Photo Description (If necessary): (***Looking Downstream***):

D3. ***Additional Locations: (Lat/Lon DMS and Decimal Degrees [WGS 84]; Observer Initial and Waypoint Number)*** Observer Initial & WPT

Location #1: Lat: ____ ____ ____ ____ ____ Lon: ____ ____ ____ ____ ____ ____

Photo Direction at ***Location #1*** (degrees): ____

Photo Numbers: _____

Photo Description (If necessary): (***Location #1***): _____

Photo Direction at ***Location #1*** (degrees): ____

Photo Numbers: _____

Photo Description (If necessary): (***Location #1***): _____

Photo Direction at ***Location #1*** (degrees): ____

Photo Numbers: _____

Photo Description (If necessary): (***Location #1***): _____

Photo Direction at ***Location #1*** (degrees): ____

Photo Numbers: _____

Photo Description (If necessary): (***Location #1***): _____

Reach Number: _____ Record ID No: _____

Location #2: Lat: _____ _____ _____ _____ _____ Lon: _____ _____ _____ _____ _____ _____

Photo Direction at ***Location #2*** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (***Location #2***): _____

Photo Direction at ***Location #2*** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (***Location #2***): _____

Photo Direction at ***Location #2*** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (***Location #2***): _____

Photo Direction at ***Location #2*** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (***Location #2***): _____

Location #3: Lat: _____ _____ _____ _____ _____ Lon: _____ _____ _____ _____ _____ _____

Photo Direction at ***Location #3*** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (***Location #3***): _____

Photo Direction at ***Location #3*** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (***Location #3***): _____

Photo Direction at ***Location #3*** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (***Location #3***): _____

Photo Direction at ***Location #3*** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (***Location #3***): _____

Reach Number: _____ Record ID No: _____

Location #4: Lat: _____ _____ _____ _____ _____ Lon: _____ _____ _____ _____ _____ _____

Photo Direction at ***Location #4*** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (***Location #4***): _____

Photo Direction at ***Location #4*** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (***Location #4***): _____

Photo Direction at ***Location #4*** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (***Location #4***): _____

Photo Direction at ***Location #4*** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (***Location #4***): _____

Location #5: Lat: _____ _____ _____ _____ _____ Lon: _____ _____ _____ _____ _____ _____

Photo Direction at ***Location #5*** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (***Location #5***): _____

Photo Direction at ***Location #5*** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (***Location #5***): _____

Photo Direction at ***Location #5*** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (***Location #5***): _____

Photo Direction at ***Location #5*** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (***Location #5***): _____

Reach Number: _____ Record ID No: _____

Location #6: Lat: _____ _____ _____ _____ _____ Lon: _____ _____ _____ _____ _____ _____

Photo Direction at ***Location #6*** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (***Location #6***): _____

Photo Direction at ***Location #6*** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (***Location #6***): _____

Photo Direction at ***Location #6*** (degrees): _____

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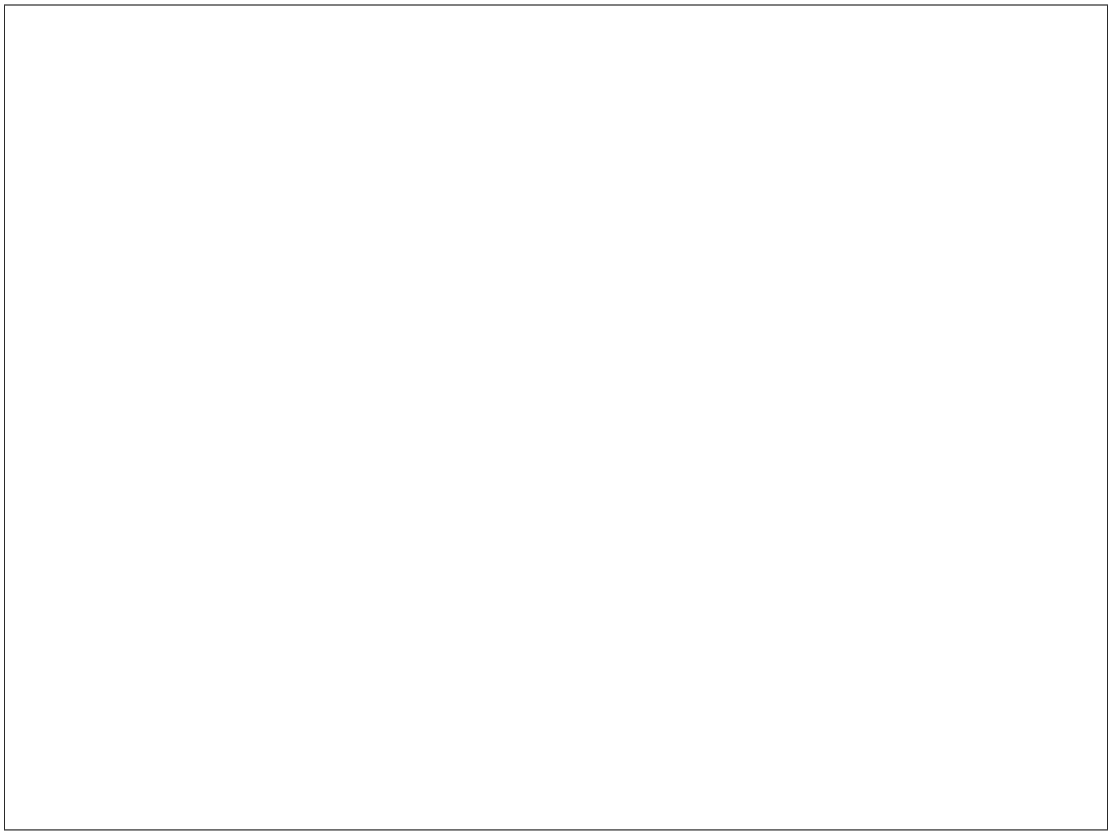
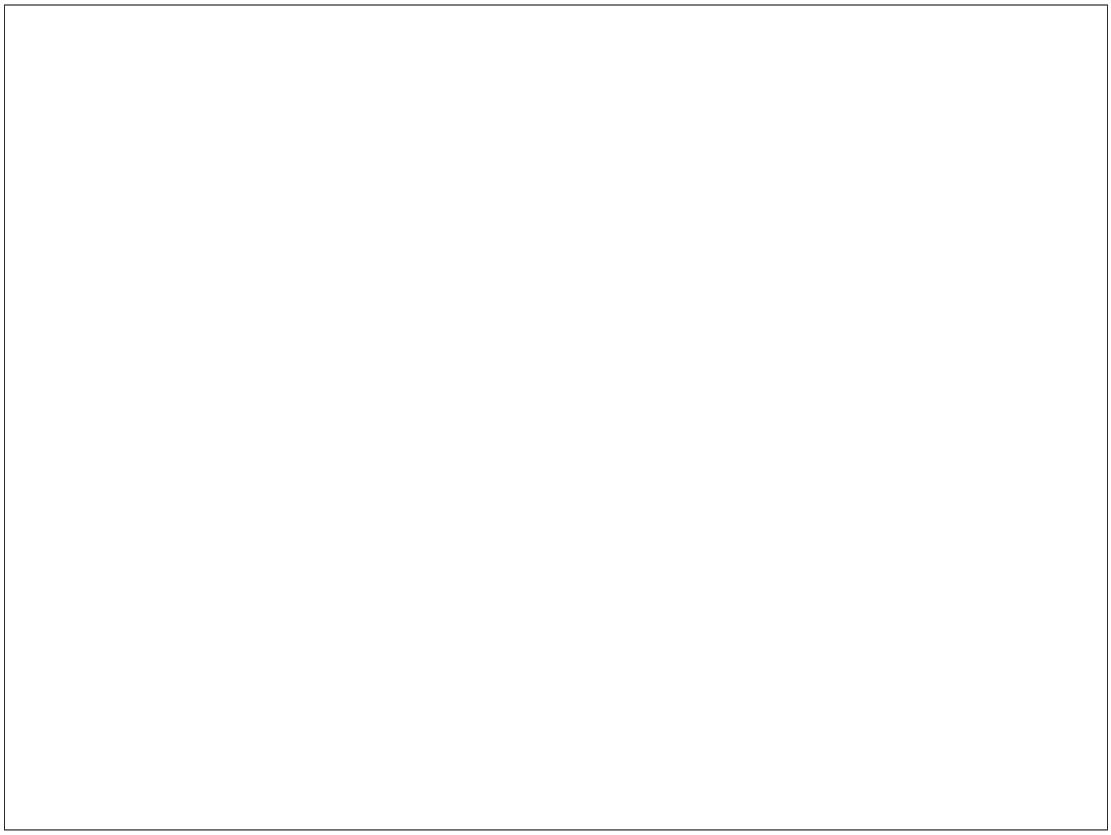
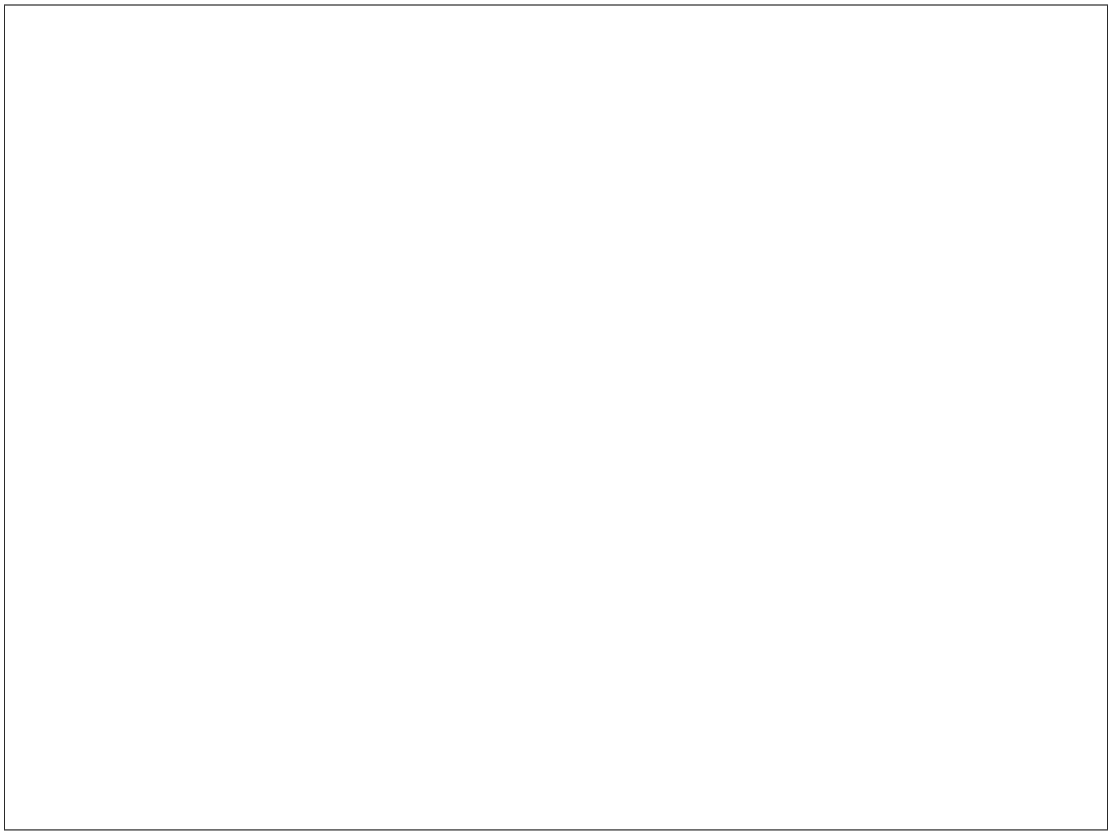
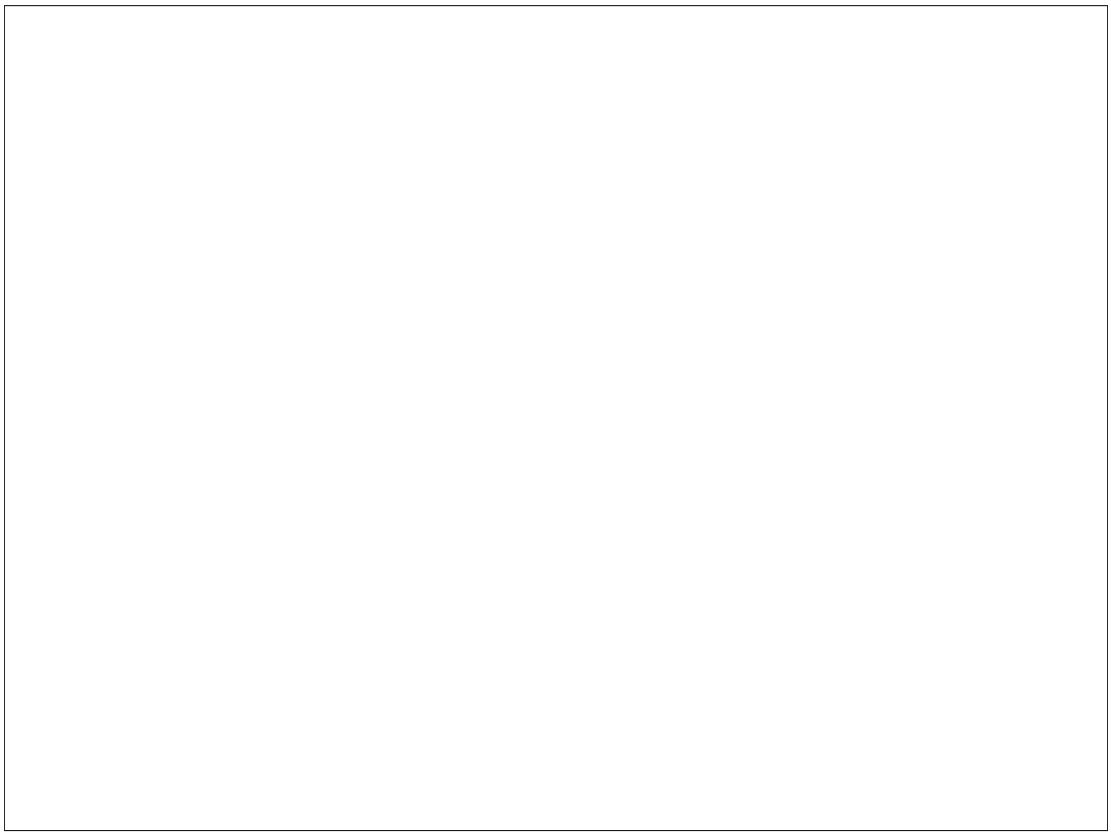
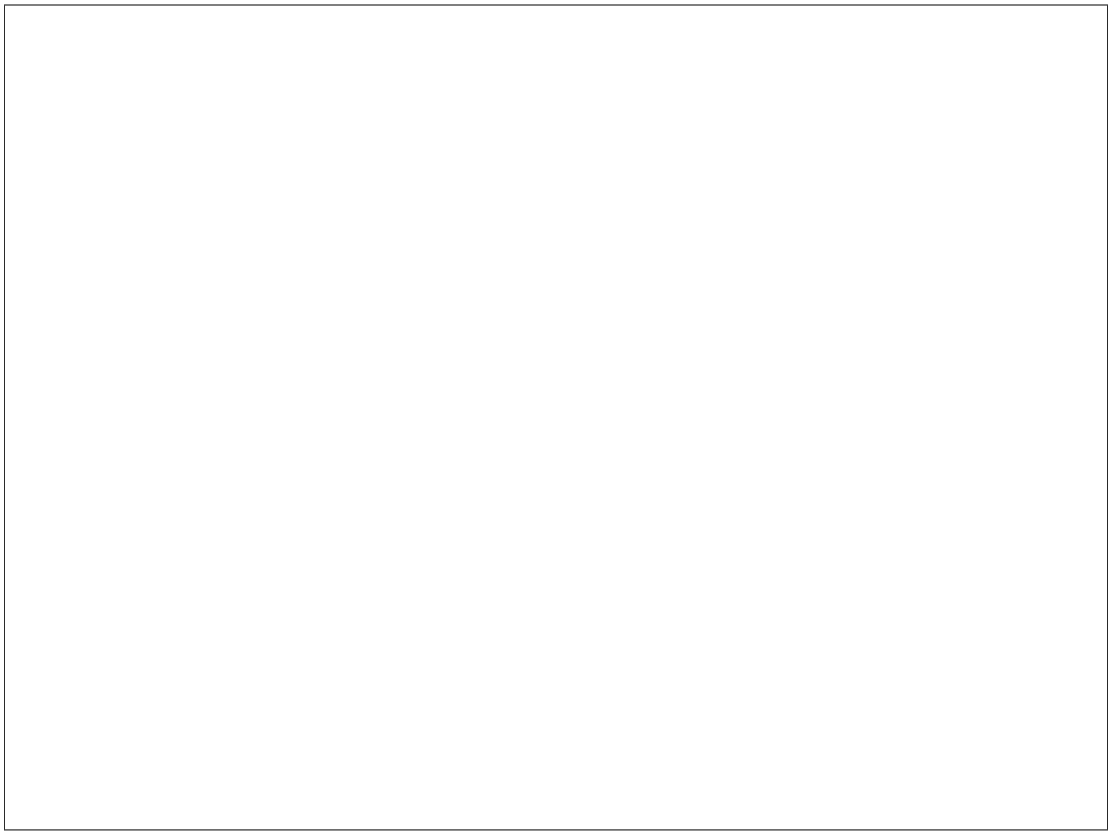
Photo Description (If necessary): (***Location #6***): _____

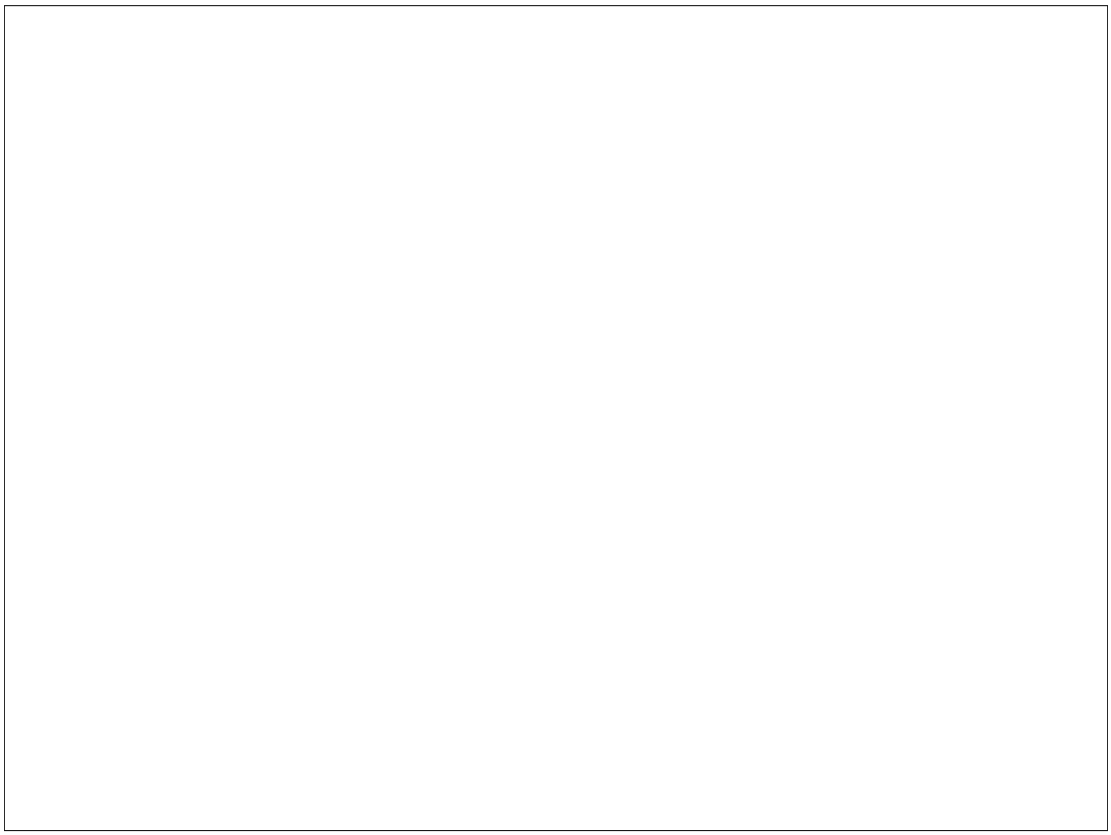


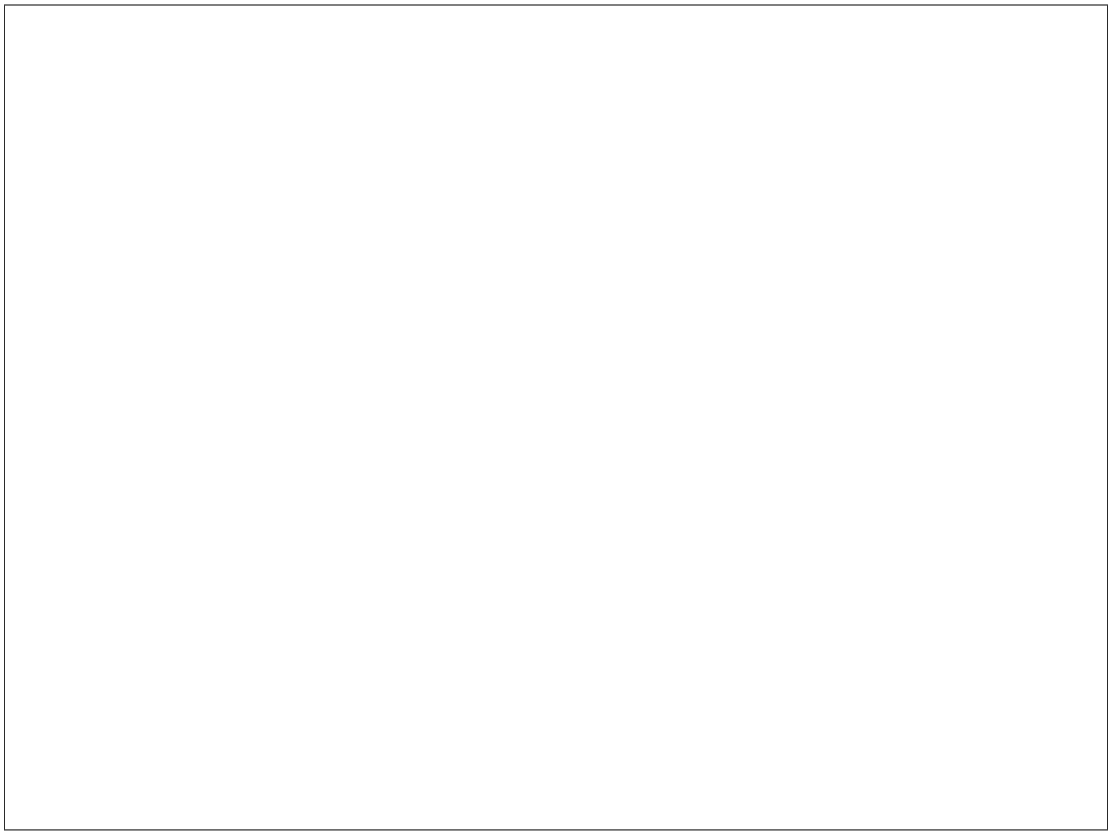


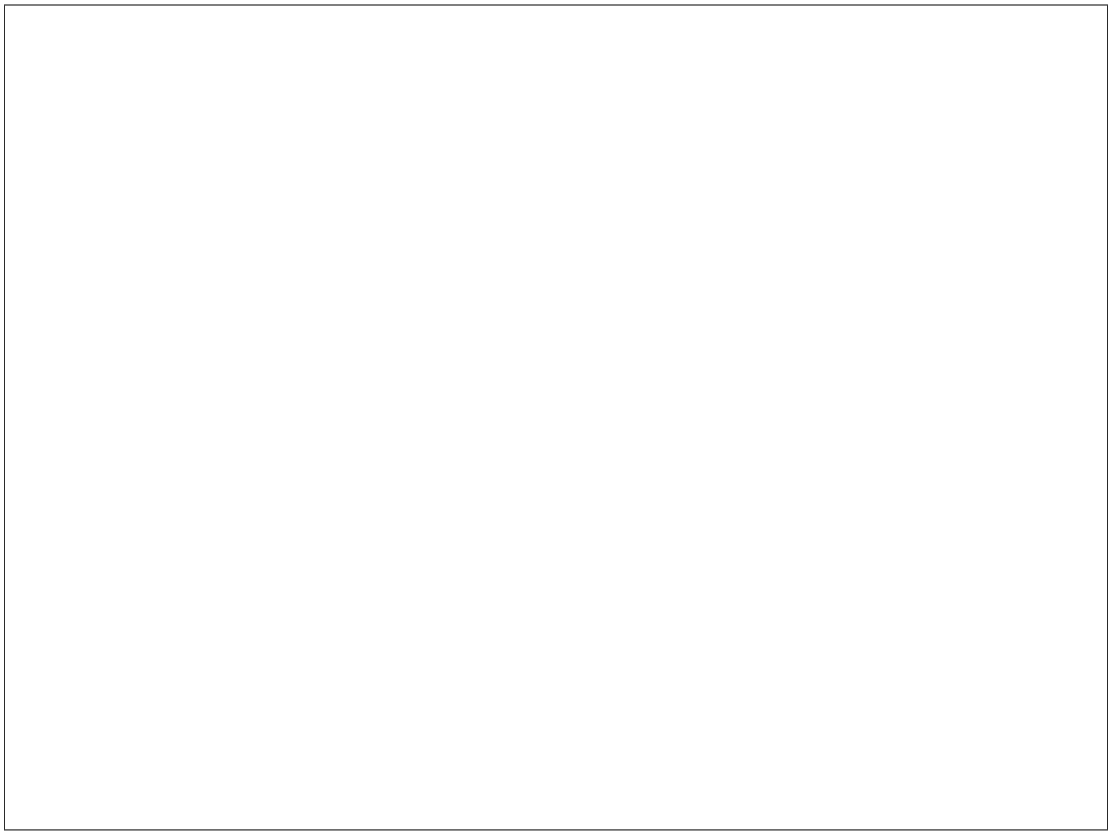


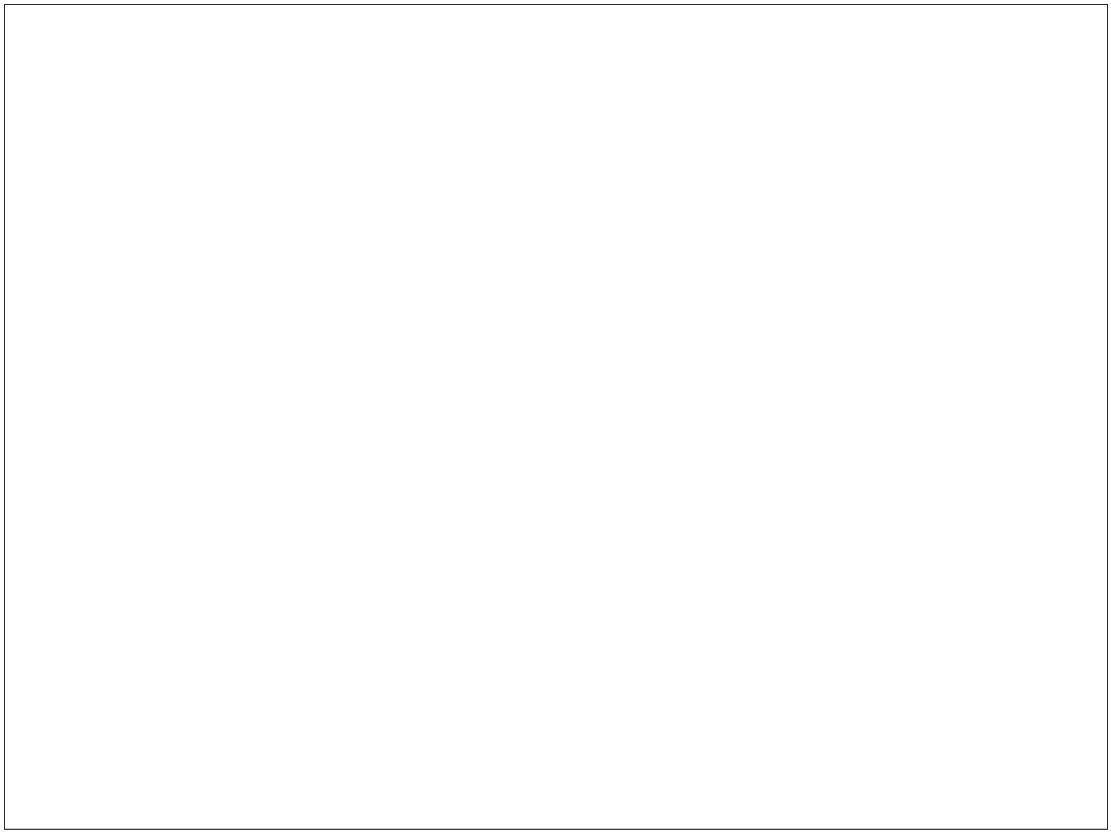


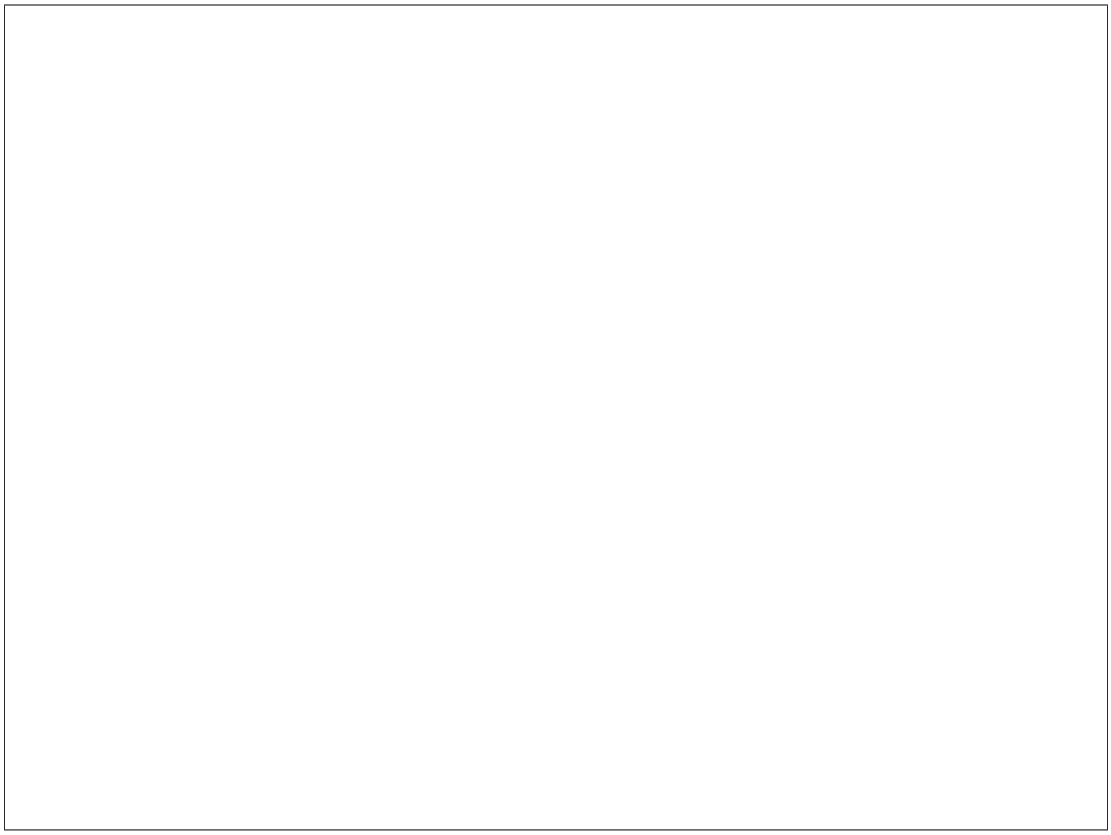


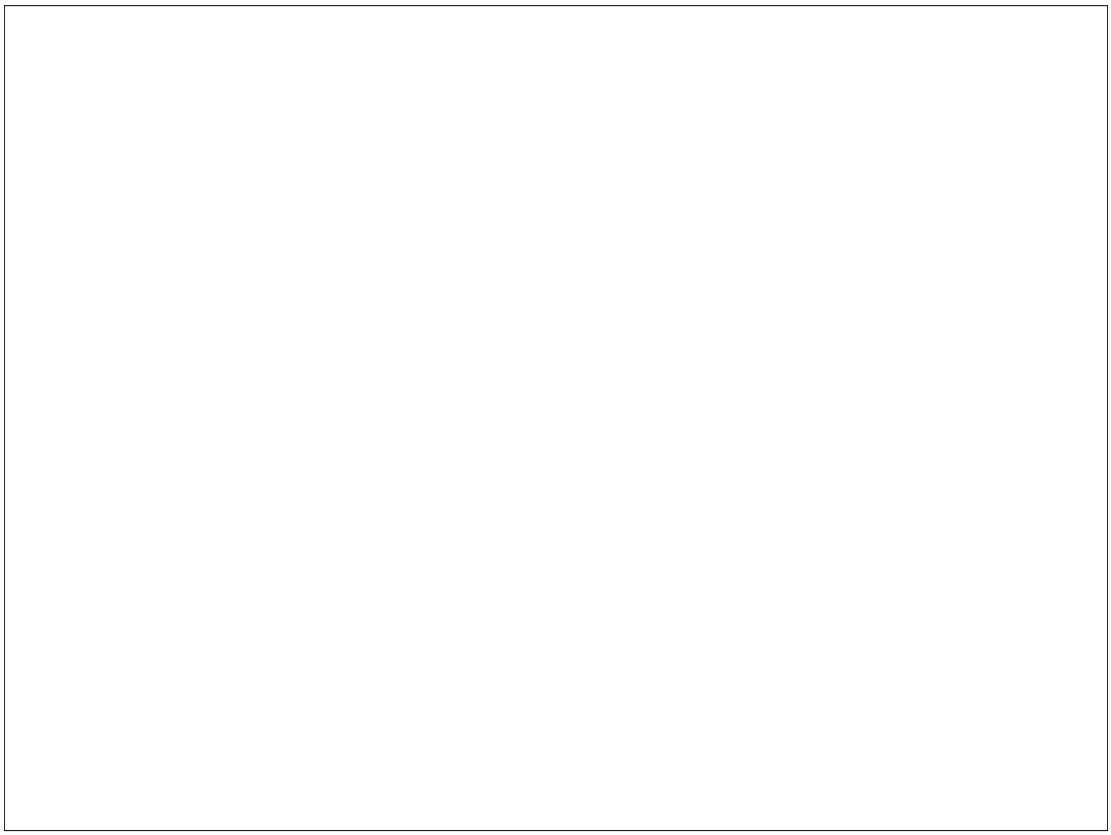


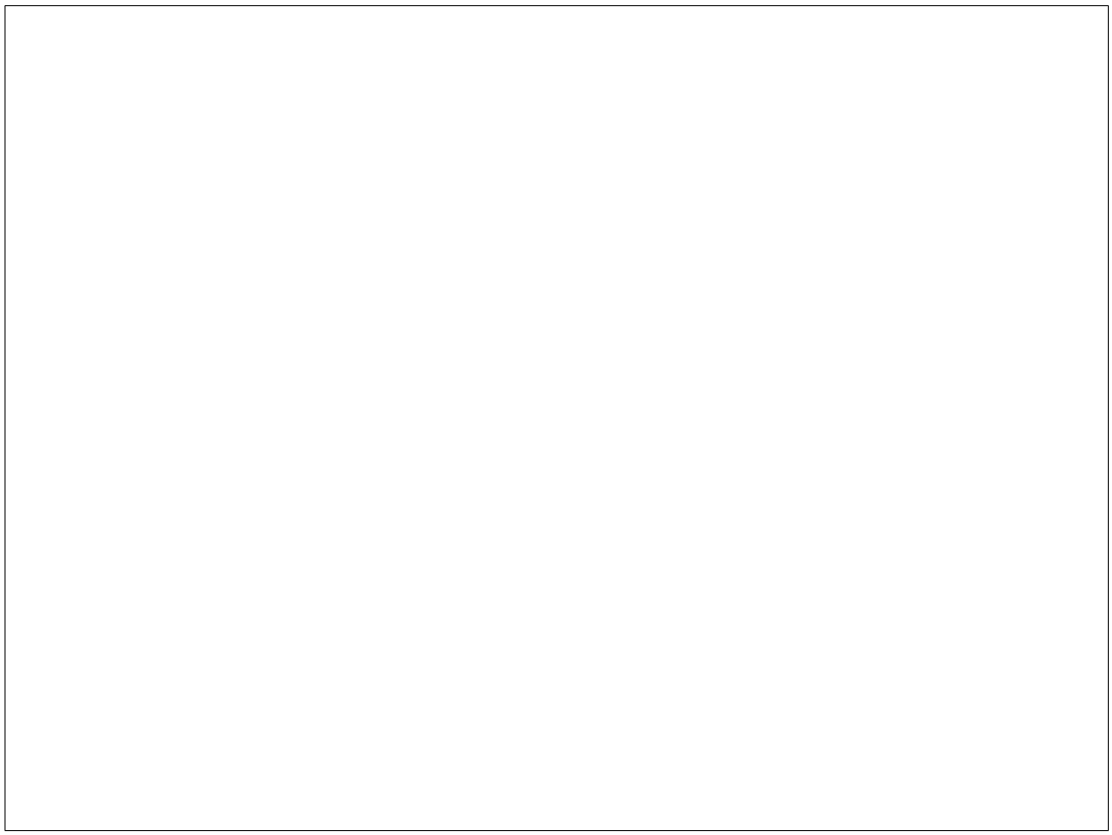


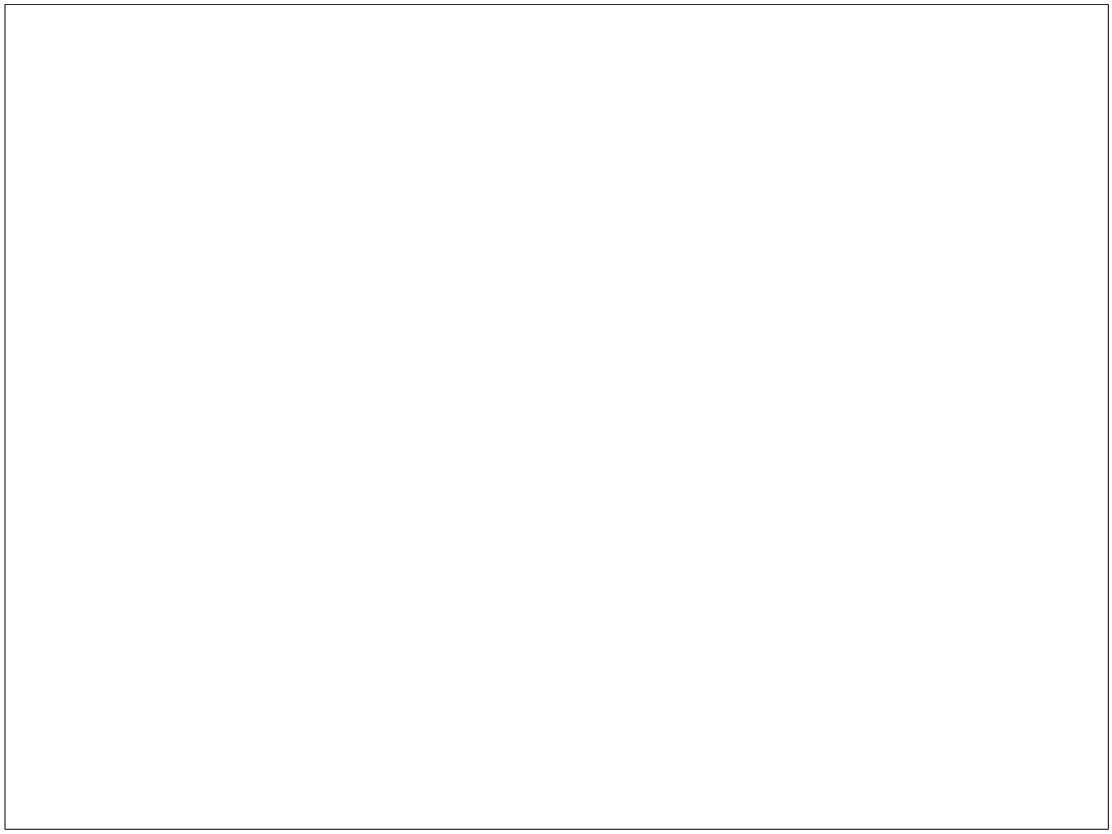


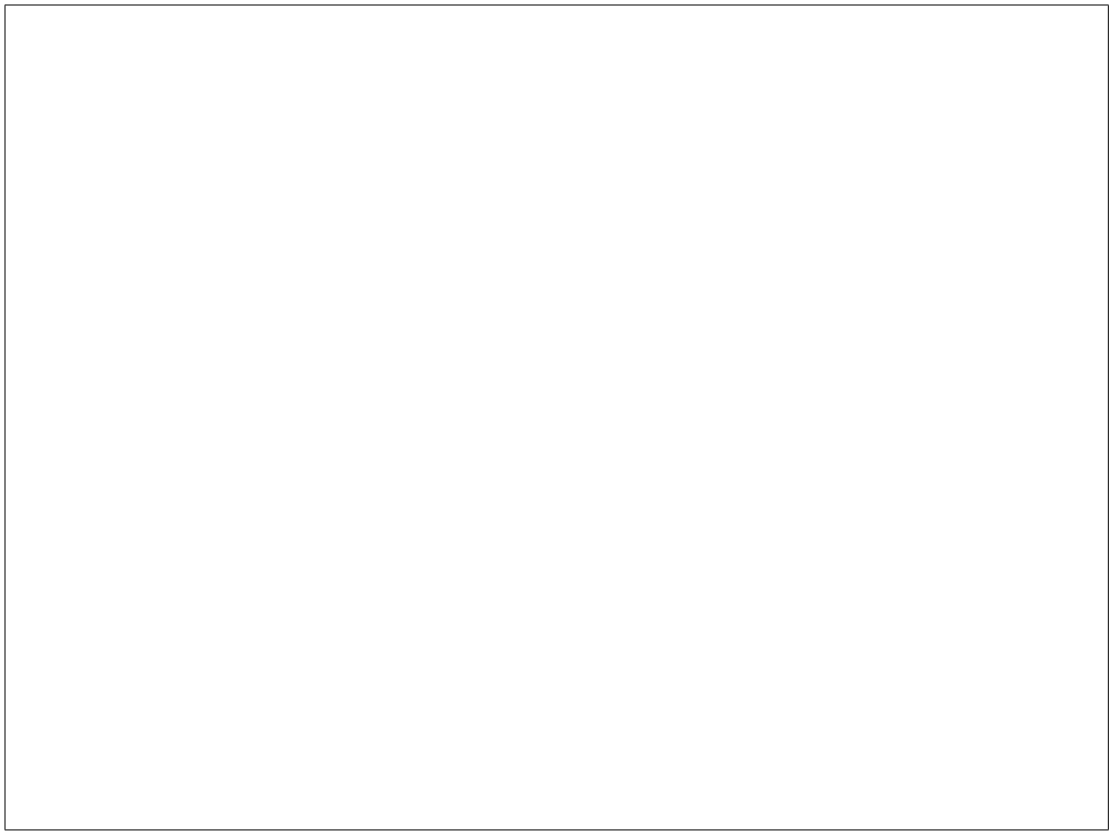


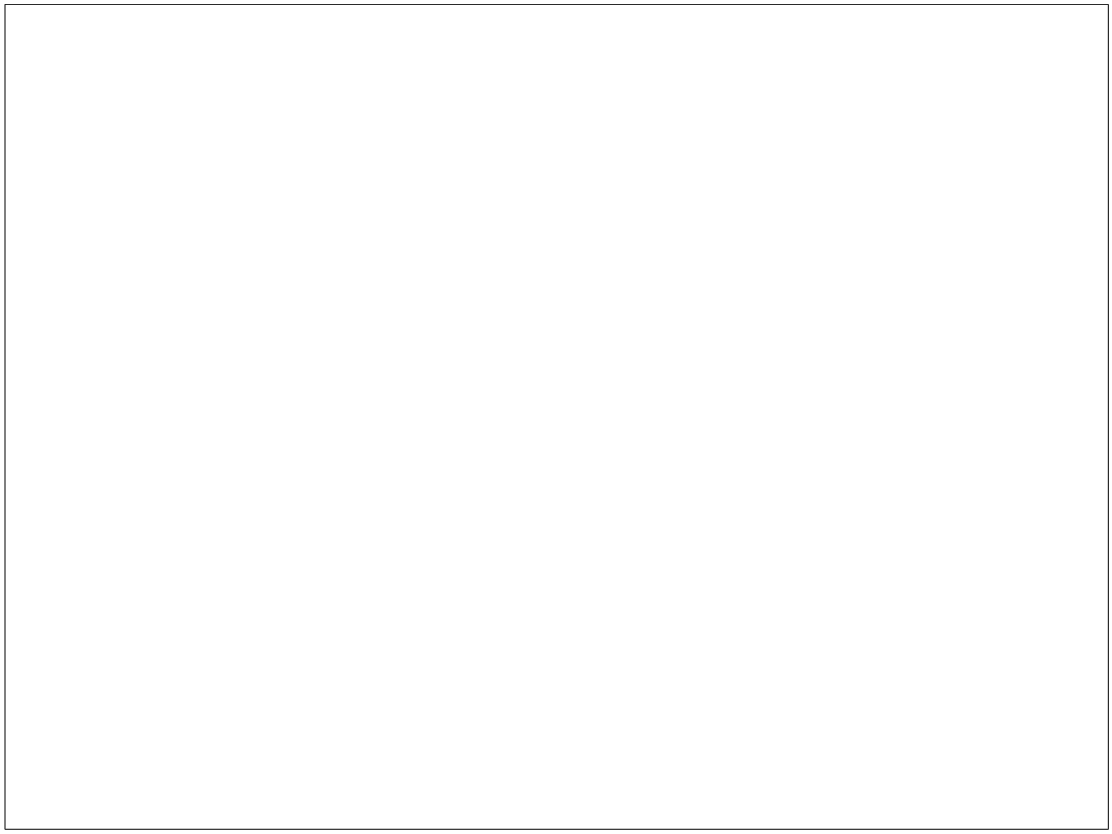


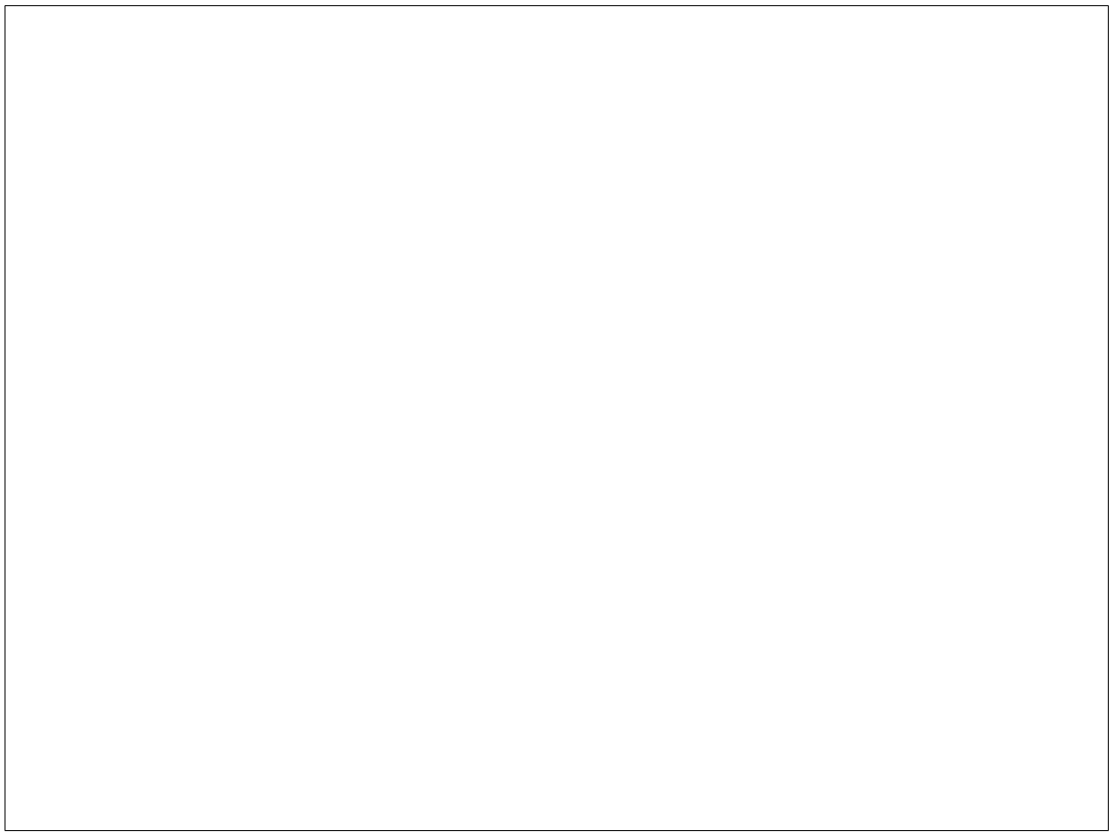


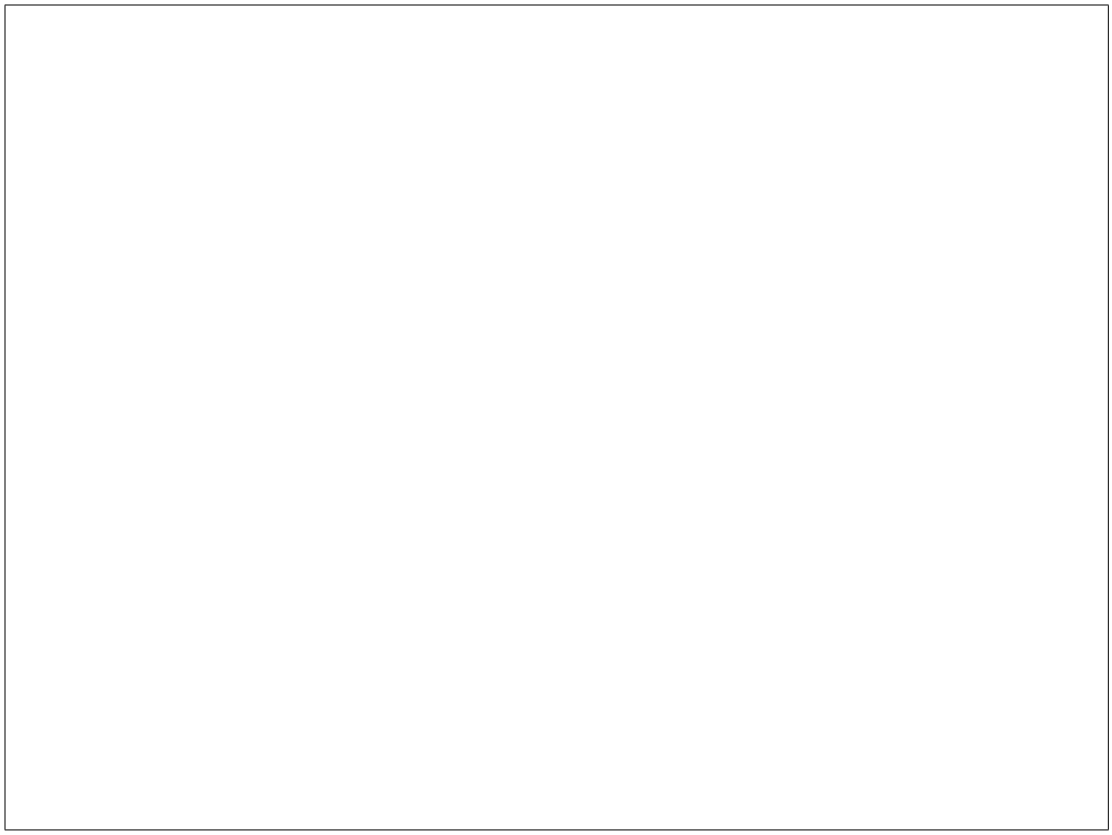


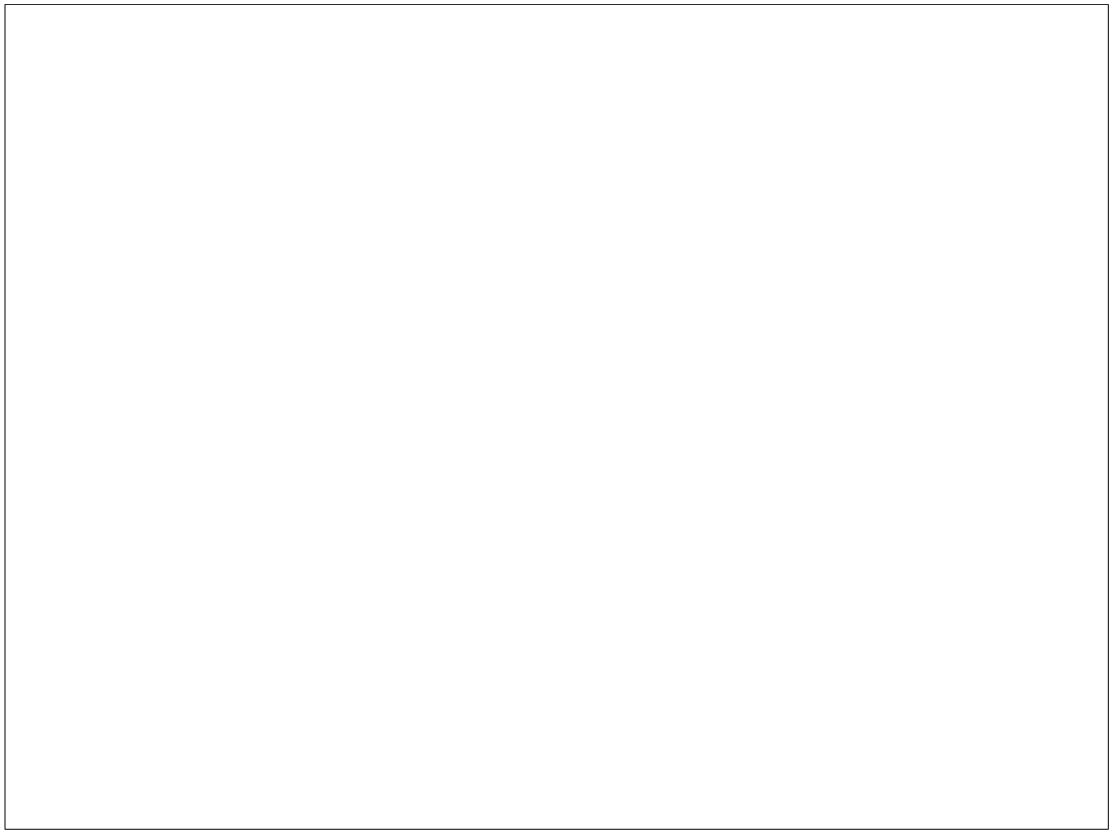


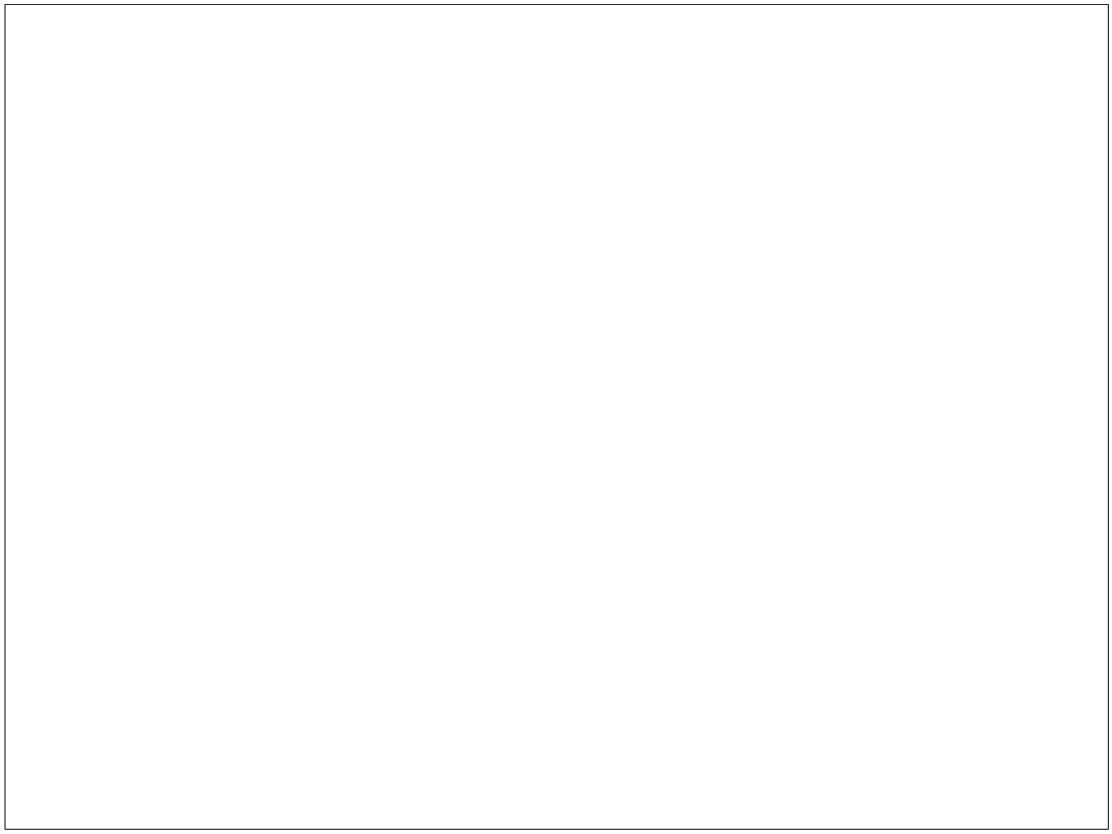


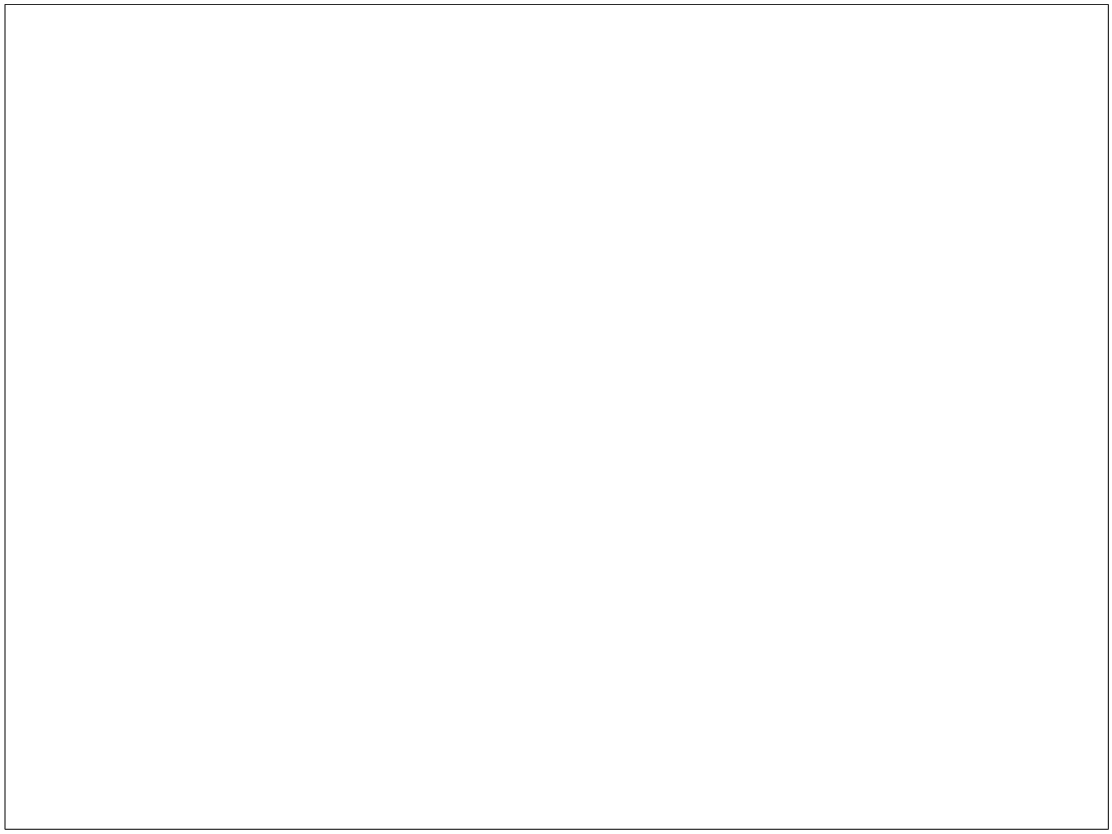


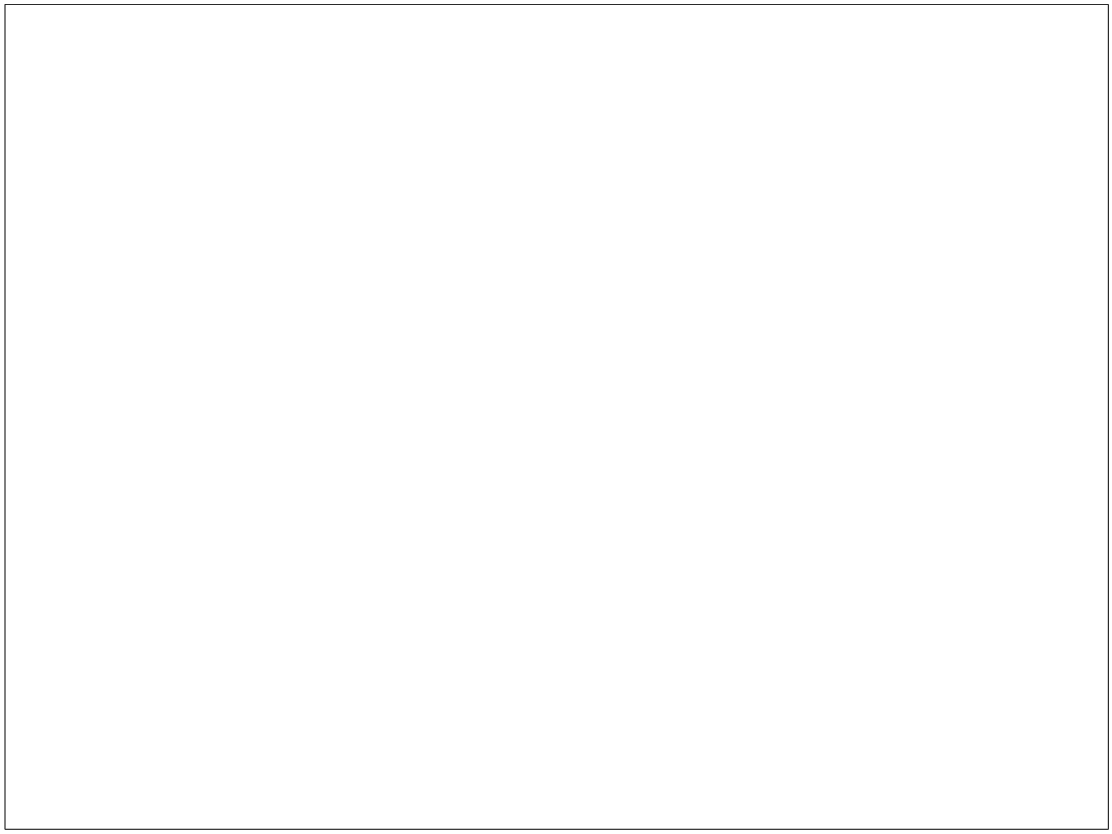


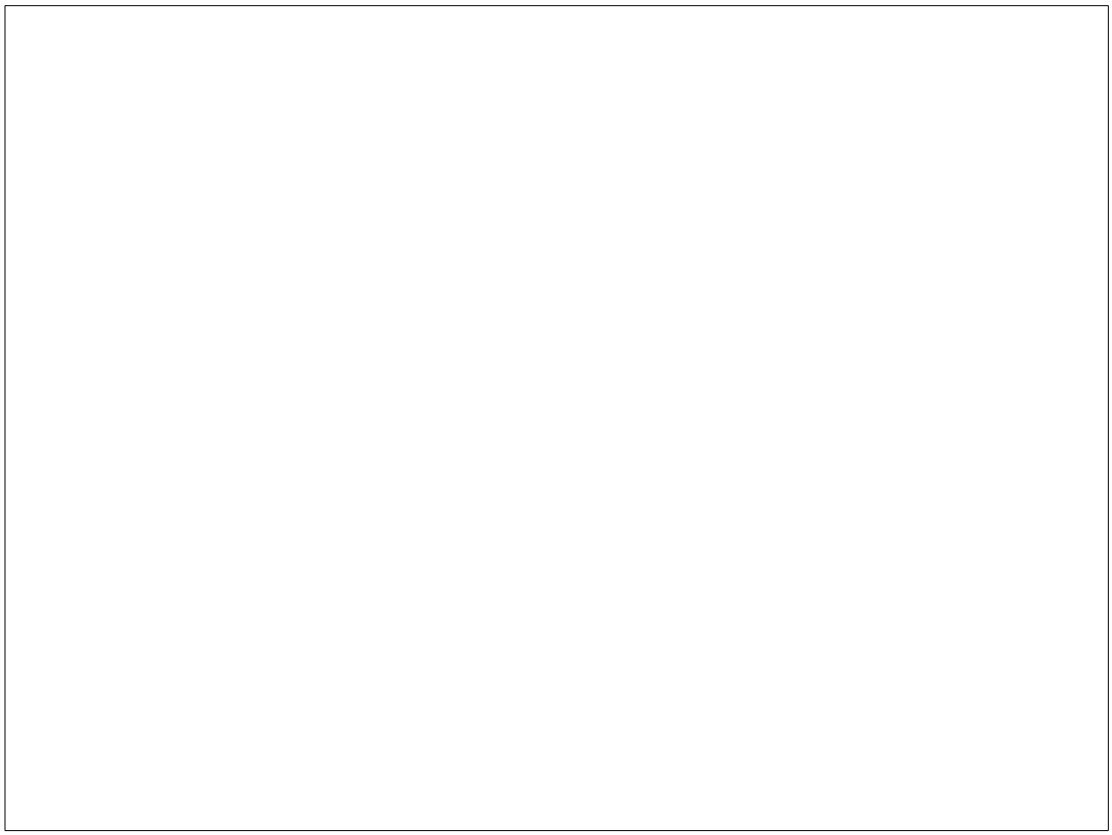


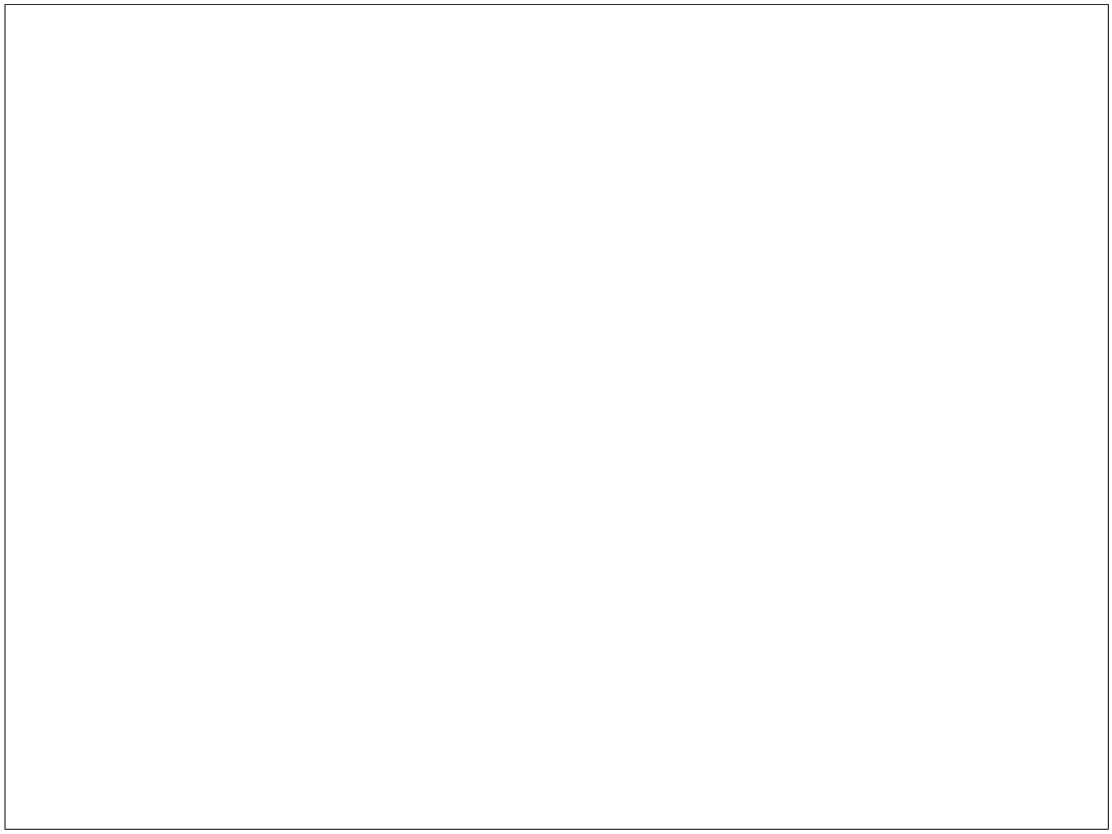


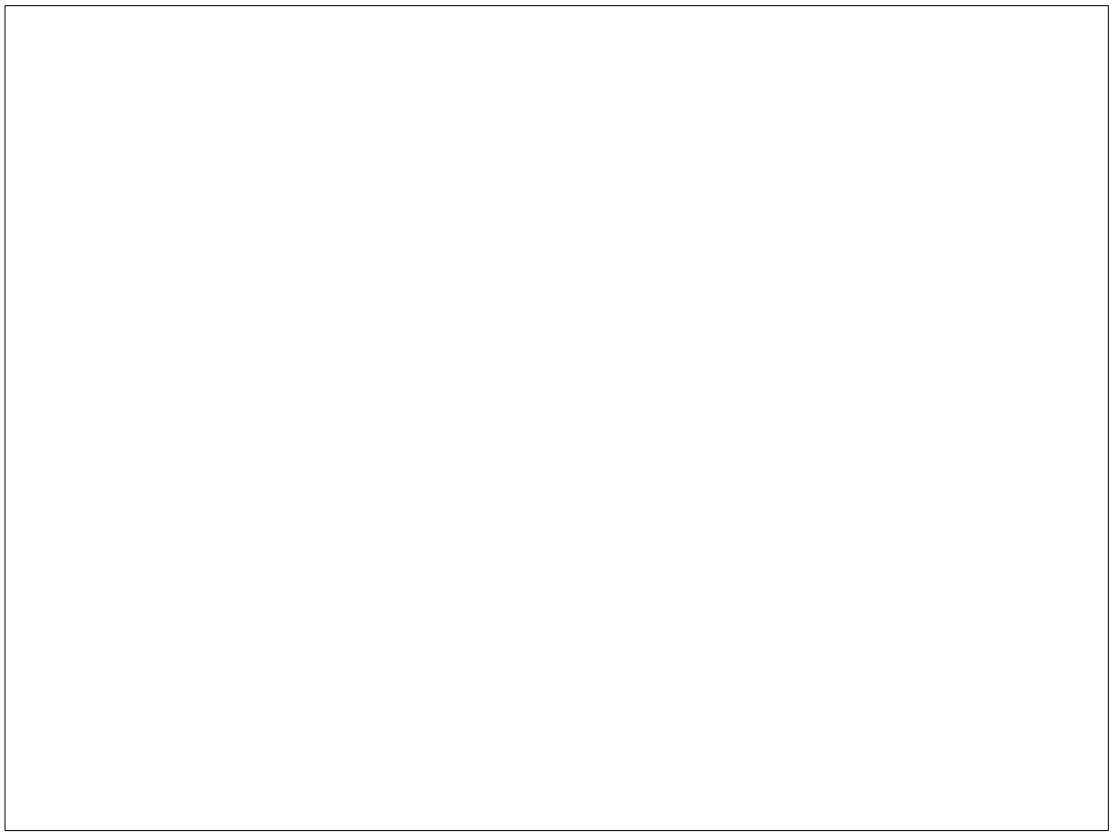


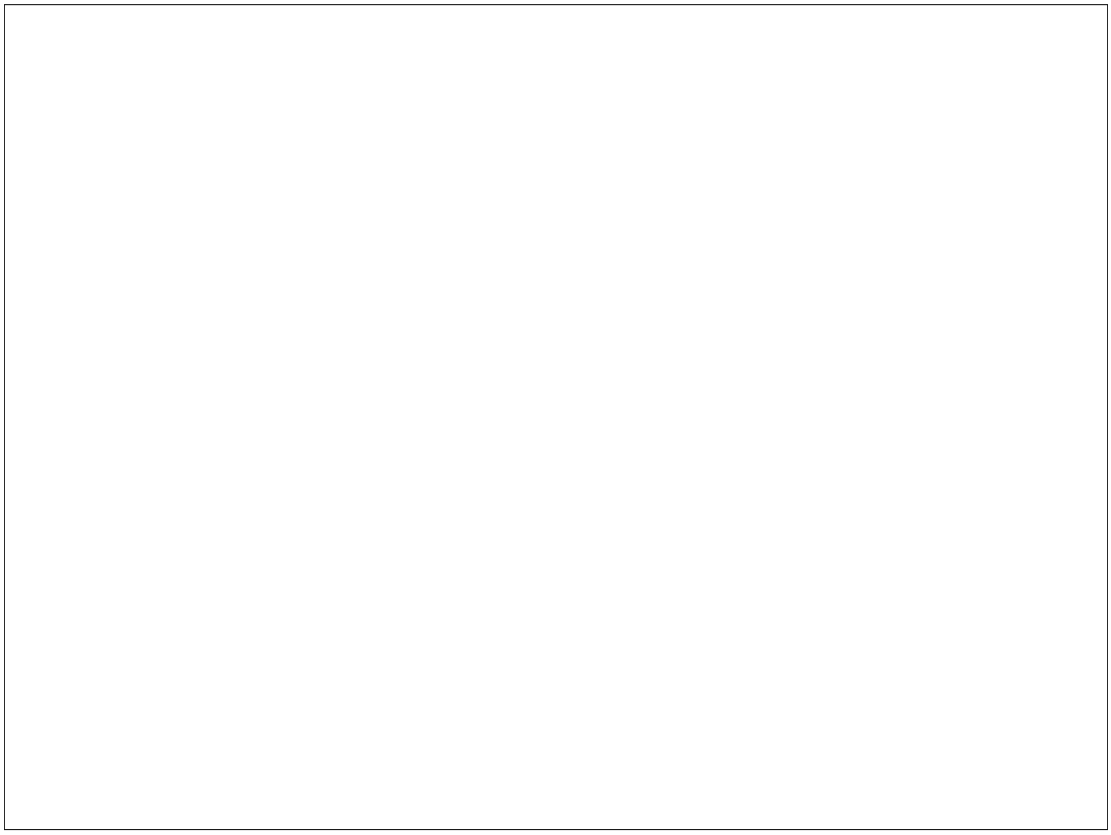


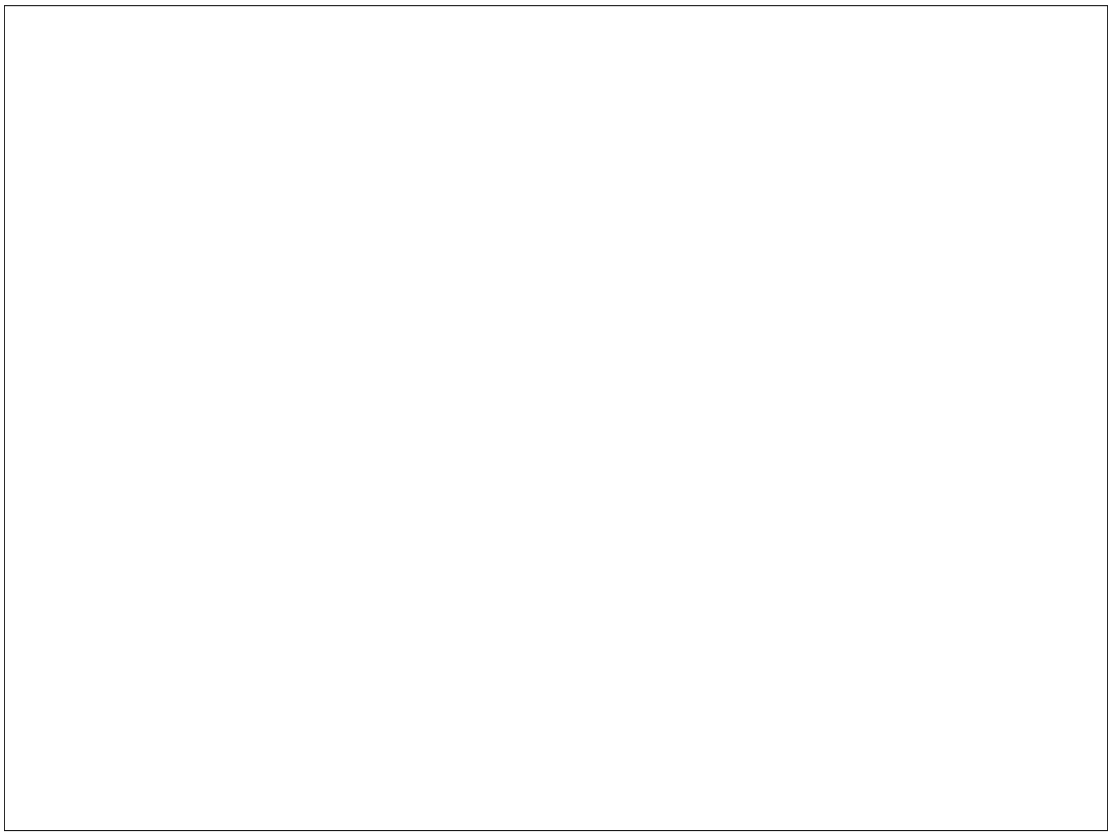


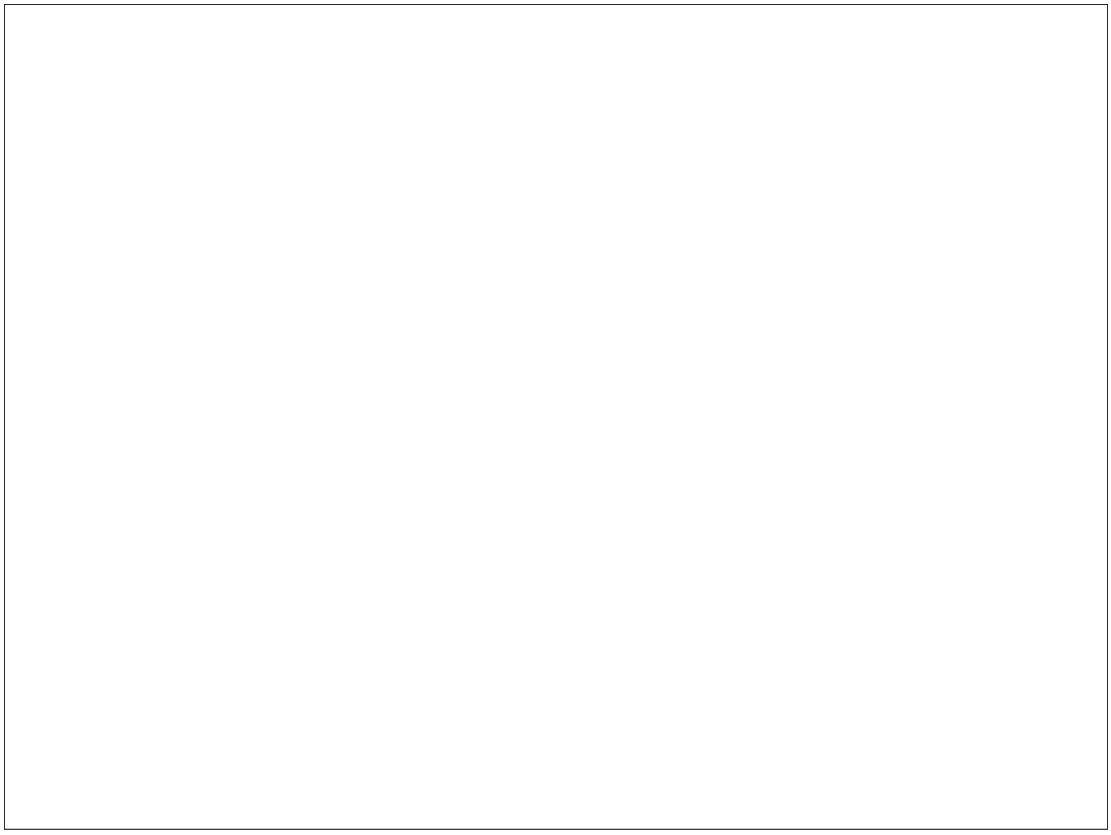












Reach Number: _____ Record ID No: _____