

Post Tier 2 SCR Evaluation Worksheet

| Site Name | | | LUST # | | |
|--|--|---|--|--|---------------------|
| Location | | Ro | egistration # | | |
| Corrective Action Conference Da | te | Time Lo | cation | | |
| Submittal Date of Worksheet to | All Confere | nce Participants | | | |
| prior to the planned teleconferer Professional (CGP) is expected to risk conditions associated with the to assess the site conditions, detained the goal of this Worksheet is to put technology is recommended, include anup. If a Tier 3 is recommended, investigations could be | formulate a formulate a le site. It is a fail and justif provide rele lude site inf | elected groundwater professional and subsess Post Tier 2 Options. This is a checklist of detailed response, evaluating the best of anticipated that a complete review will tarry a recommended approach, and discuss evant data necessary to make an informed ormation that relates to the applicability supply information to demonstrate that the proceed to a Tier 3 Report without subm | only; the Certified Grouptions to address the ake 10 or more hours of viable alternatives. I decision. If a remedia of the technology to the his could be a viable appropriate to the could be a vi | indwate applicate f a CGP tion ne site | er ole s time |
| Plan. PART I. CONFERENCE AND CONT. | ACT DATA | | | | |
| CGP | | CGP # | Phone | | |
| DNR Project Manager | | | Phone | | |
| Divit i roject ividilagei | | | | | |
| | | | Mtg Participant? | | □N |
| Current Property Owner | Email | | Mtg Participant? | □ Y | □ N |
| Current Property Owner | Email | | Mtg Participant? Mtg Participant? | □ Y | |
| Current Property Owner Phone Current Business Operator | Email | | <u> </u> | | |
| Current Property Owner Phone Current Business Operator Phone | _ | | <u> </u> | | N |
| Current Property Owner Phone Current Business Operator Phone RP/ Contractor's Client | _ | | Mtg Participant? | Y | N |
| Current Property Owner Phone Current Business Operator Phone RP/ Contractor's Client Phone | Email Email | | Mtg Participant? | Y | □ N |
| Current Property Owner Phone Current Business Operator Phone RP/ Contractor's Client Phone Is Client an innocent landowner? | Email Email Yes | □ No elephone Numbers (City? Lessee? Renter | Mtg Participant? Mtg Participant? | Y | N |
| Current Property Owner Phone Current Business Operator Phone RP/ Contractor's Client Phone S Client an innocent landowner? | Email Email Yes | _ | Mtg Participant? Mtg Participant? | Y | |
| Current Property Owner Phone Current Business Operator Phone RP/ Contractor's Client Phone S Client an innocent landowner? | Email Email Yes | _ | Mtg Participant? Mtg Participant? | Y | N |
| Current Property Owner Phone Current Business Operator Phone RP/ Contractor's Client Phone S Client an innocent landowner? | Email Email Yes rence and T | elephone Numbers (City? Lessee? Renter | Mtg Participant? Mtg Participant? ?): | Y | |

PART 2: GENERAL DATA

<u>Tier 2 Deficiencies</u>: Be prepared to discuss how Tier 2 SCR, SMR, and/or CADR deficiencies will be addressed. Generally, minor deficiencies will be dealt with in the next reporting event.

| Active USTs? | | | |
|---|--|------------------------|---|
| Closed in Place USTs: | Site Conditions | | |
| Active ASTs: Removed ASTs: Current Use of Site: Financial Responsibility Mechanism for active UST system: Geology/Hydrogeology K min. at MW-? | Active USTs? ☐ Yes ☐ No | Removed USTs? | |
| Current Use of Site: Financial Responsibility Mechanism for active UST system: Geology/Hydrogeology K min. at MW-? | Closed in Place USTs: | _ | Date/# Closed In Place: |
| Financial Responsibility Mechanism for active UST system: Geology/Hydrogeology K min. at MW-? | Active ASTs: | | Removed ASTs: |
| Geology/Hydrogeology K min. at MW-? | Current Use of Site: | | |
| K min. at MW-? | Financial Responsibility Mechanism for | r active UST system: | |
| Type: | Geology/Hydrogeology | | |
| Range of soil contamination (depth - based on field screening readings): Depth to water at soil source: | K min. at MW-? | K max. at MW-? | Bedrock site Yes No |
| Depth to water at soil source: (range based on all data) Depth to water at GW source: (range based on all data) Depth to water across plumes: (range based on all data) Groundwater flow direction and variations: Stratigraphy (describe): High Risk Issues Are there any past or present known, actual impacts to receptors such as contaminants in drinking water wells or water lines, petroleum odors in basements, or sheen on surface waters? If yes, identify the receptor and its current status and risk classification. Drinking Water Wells: Water Lines: Vapor Receptors: Surface Water: Has over-excavation or other remediation/corrective action been implemented at the site? Describe. Possible Site Restrictions: Are you aware of any restrictions or obstacles which could hinder or prevent some corrective actions, such as buildings, roads, utilities, access issues, business restrictions, future uses, off-site or contributing sources, old / new release issues, | Type: | | Depth(s) to bedrock: |
| Depth to water at GW source: | Range of soil contamination (depth - ba | ased on field screenir | ig readings): |
| Depth to water across plumes: | Depth to water at soil source: | | _ (range based on all data) |
| Groundwater flow direction and variations: Stratigraphy (describe): High Risk Issues Are there any past or present known, actual impacts to receptors such as contaminants in drinking water wells or water lines, petroleum odors in basements, or sheen on surface waters? If yes, identify the receptor and its current status and risk classification. Drinking Water Wells: Water Lines: Vapor Receptors: Surface Water: Has over-excavation or other remediation/corrective action been implemented at the site? Describe. Possible Site Restrictions: Are you aware of any restrictions or obstacles which could hinder or prevent some corrective actions, such as buildings, roads, utilities, access issues, business restrictions, future uses, off-site or contributing sources, old / new release issues, | Depth to water at GW source: | | _ (range based on all data) |
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| Water Lines: Vapor Receptors: Surface Water: Has over-excavation or other remediation/corrective action been implemented at the site? Describe. Possible Site Restrictions: Are you aware of any restrictions or obstacles which could hinder or prevent some corrective actions, such as buildings, roads, utilities, access issues, business restrictions, future uses, off-site or contributing sources, old / new release issues, | Are there any past or present known, a lines, petroleum odors in basements, o risk classification. | or sheen on surface w | aters? If yes, identify the receptor and its current status and |
| Vapor Receptors: Surface Water: Has over-excavation or other remediation/corrective action been implemented at the site? Describe. Possible Site Restrictions: Are you aware of any restrictions or obstacles which could hinder or prevent some corrective actions, such as buildings, roads, utilities, access issues, business restrictions, future uses, off-site or contributing sources, old / new release issues, | Water Lines: | | |
| Surface Water: Has over-excavation or other remediation/corrective action been implemented at the site? Describe. Possible Site Restrictions: Are you aware of any restrictions or obstacles which could hinder or prevent some corrective actions, such as buildings, roads, utilities, access issues, business restrictions, future uses, off-site or contributing sources, old / new release issues, | Maria Barrata | | |
| Has over-excavation or other remediation/corrective action been implemented at the site? Describe. Possible Site Restrictions: Are you aware of any restrictions or obstacles which could hinder or prevent some corrective actions, such as buildings, roads, utilities, access issues, business restrictions, future uses, off-site or contributing sources, old / new release issues, | | | |
| Are you aware of any restrictions or obstacles which could hinder or prevent some corrective actions, such as buildings, roads, utilities, access issues, business restrictions, future uses, off-site or contributing sources, old / new release issues, | | ion/corrective action | been implemented at the site? Describe. |
| | Are you aware of any restrictions or ob roads, utilities, access issues, business | | |

Contaminant Concentrations and High Risk Receptors/Pathways Free Product: ☐ Yes ☐ No Free Product present now? Date of most recent FP report: Which wells had FP in the last year? Recent product thickness (ft): What kind of FP recovery is or was conducted? **Source Concentrations:** Provide the maximum concentrations from the latest approved Tier 2. **GROUNDWATER** SOIL Location Conc. Location Conc. Soil source re-Chemical Depth Date Date (BH, MW) (MW) $(\mu g/L)$ (mg/kg) sampled? В ☐ Yes ☐ No Τ ☐ Yes ☐ No Ε ☐ Yes ☐ No Х ☐ Yes ☐ No TEH_d ☐ Yes ☐ No TEH_{wo} ☐ Yes ☐ No High Risk or Low Risk Pathways and Receptors: Use the data from the latest approved Tier 2 or approved SMR. If there are multiple receptors in the same pathway, list the number of receptors and only the lowest SSTL. **Pathway** Receptor Chemical **Lowest SSTL Proposed Corrective Action** В Ex: GW-WL WL-1 8,400 μg/l WL replacement If new data has been collected since the submission of the Tier 2, SMR, or CADR (i.e., current contaminant data, receptor surveys, boring logs), provide the data as an attachment to the checklist. PART 3. OPTIONS EVALUATION The following questions/options should be considered for each pathway/receptor identified. Indicate if the option listed is feasible; if so, include projected costs, method for estimating costs, and source of information. If not feasible, explain why. Provide your evaluation as an attachment with the appropriate section headings. All sites should be evaluated using the web-based application or bedrock software if applicable. Check with the DNR project manager before submitting a revised Tier 2. Section 1. Water Wells (Drinking and Non-Drinking Water Wells) Tier 3 an option? (pumping test, stratigraphy, non-expanding plume) Is the water well currently used? Can the well be re-cased or plugged? Is public water available? Is an alternate water source available?

| | Has the owner of well been contacted regarding risk or replacement? | |
|-----------|--|--|
| | Technological control possible? (i.e., point of use treatment) | |
| | Possible to relocate a water well outside of actual or simulated plume? | |
| | Have source control been used to remove soil/gw sources? | |
| | Other alternatives? | |
| | Active remediation options? | |
| Section 2 | . Protected Groundwater Source | |
| | Is public water available? | |
| | Does an institutional control (IC) exist regarding well placement? | |
| | Can an IC be obtained? | |
| | Identify any known prior attempts to secure an IC. | |
| | Has the soil source/maximum been re-sampled? | |
| | Is Tier 3 an option? (i.e., aquifer characterization, pumping test) | |
| | Has source control been used to remove soil/gw sources? | |
| | Active remediation options? | |
| | Other alternatives? | |
| Section 3 | . Water Lines (WLs) | |
| | Can a 3 ft. separation be documented between water levels & WLs? | |
| | Could the WL be relocated outside the plume? | |
| | Length of WL in actual plume. | |
| | Length of WL in actual plume. +50 ft | |
| | Total length of WL in actual & simulated plumes. | |
| | Is replacement with non-gasketed or other pipe possible? | |
| | Has the owner of WL been contacted regarding risk or replacement? Is Tier 3 an option? (i.e., plume stability, >10 ft. separation between soil plume and WL, or other) | |
| | Source control been used to remove soil / gw sources? | |
| | Active remediation options? | |
| | Other alternatives? | |
| Section 4 | . Vapor Receptors | |
| | Has soil gas been conducted at the soil source? | |
| | Has soil gas been conducted at the groundwater source? | |
| | Has soil gas been conducted at alternate points of compliance? | |
| | Can the receptor be moved or eliminated? | |
| | Is it possible to prove receptor submergence? | |
| | Is a zoning change possible? Verify current zoning. | |
| | Can the property be purchased? | |
| | Has the owner been contacted regarding risk or replacement? | |
| | Is venting possible at the point of exposure? | |

| | Is the soil plume submerged? | | |
|--------------|---|--|----|
| | Has the soil source been re-sampled? | | |
| | Is Tier 3 an option? (non-expanding plume, etc.) | | |
| | Active remediation options? | | |
| | Other alternatives? | | |
| Section 5 | Surface Water Receptors (Please note some watercourses m | nay no longer he classified General Use by may | |
| now be D | pesignated Use. This could result in a different risk classification uality Section.) | , , | ž |
| | Is Tier 3 an option? (i.e., non-expanding plume) | | |
| | Active remediation options? | | |
| | Other alternatives? | | |
| alternative | approach and at least one alternative, explain them, and proves depends upon collection of additional data or other issues, ones in detail. | • | |
| | cost estimate for the chosen approach and for at least one alto detailed and formatted such that the alternative technologie | | |
| If an active | e remediation system is recommended, estimate time required | d to reach SSTLs. | |
| CERTIFICA | TION: | | |
| l, | , Iowa Certified Groundw | vater Professional No, certi | fy |
| that the ab | pove information is true based on my knowledge of the site an | nd the most recent RBCA evaluation completed | |
| and accept | ted by the Department for the referenced site: | | |
| | | | |
| | Signature | date | |